

MARIN SOFTWARE INC
Form 10-K
March 14, 2019

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

Annual Report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the fiscal year ended December 31, 2018

OR

Transition report pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

Commission File Number: 001-35838

Marin Software Incorporated

(Exact name of registrant as specified in its charter)

Delaware 20-4647180
(State or other jurisdiction of (I.R.S. Employer

incorporation or organization) Identification Number)
123 Mission Street, 27th Floor

San Francisco, CA 94105

(415) 399-2580

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Name of each exchange on which registered
Common stock, par value \$0.001 per share	The Nasdaq Global Market

Securities registered pursuant to section 12(g) of the Act:

Not applicable

Indicate by check mark if the Registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes No

Indicate by check mark if the Registrant is not required to file reports pursuant to Section 13 or Section 15(d) of Act. Yes No

Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the Registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the Registrant was required to submit such files). Yes No

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Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§229.405 of this chapter) is not contained herein, and will not be contained, to the best of Registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer Accelerated filer
Non-accelerated filer Smaller reporting company
 Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the Registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes No

Based on the closing price of the Registrant's Common Stock on the The Nasdaq Global Market of \$5.80 on the last business day of the Registrant's most recently completed second fiscal quarter, which was June 30, 2018, the aggregate market value of its shares held by non-affiliates was approximately \$31.3 million. Shares of the Registrant's Common Stock held by each executive officer and director were excluded in that such persons may be deemed to be affiliates. This determination of affiliate status is not necessarily a conclusive determination for other purposes.

As of March 9, 2019, there were approximately 5,944,000 shares of the Registrant's Common Stock outstanding.

MARIN SOFTWARE INCORPORATED

FORM 10-K

For the Fiscal Year Ended December 31, 2018

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SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This Annual Report on Form 10-K, including the "Management's Discussion and Analysis of Financial Condition and Results of Operations," contains forward-looking statements regarding future events and our future results, including statements regarding the capabilities of our technology platform and upgrades to the platform, product capabilities and their benefits for our customers, and expectations as to financial performance, that are subject to the safe harbors created under the Securities Act of 1933, as amended, and the Securities Exchange Act of 1934, as amended. All statements contained in this Annual Report on Form 10-K other than statements of historical fact, including statements regarding our future results of operations and financial position, our business strategy and plans, and our objectives for future operations, are forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. The words "believe," "may," "potentially," "will," "estimate," "continue," "anticipate," "intend," "could," "should," "project," "plan," "predict," "expect," "seek," "likely," and similar expressions are intended to identify forward-looking statements. We have based these forward-looking statements largely on our current expectations, estimates and projections about future events and trends that we believe may affect our financial condition, results of operations, business strategy, short-term and long-term business operations and objectives, and financial needs. These statements reflect our beliefs and certain assumptions based upon information available to us at the time we file this Annual Report on Form 10-K or the time of the documents incorporated by reference. Such forward-looking statements are only predictions, which may differ materially from actual results or future events. Although we believe that our expectations, estimates and projections reflected in the forward-looking statements are reasonable, we cannot be sure that they will be achieved. These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including those described in the "Risk Factors" section. Moreover, we operate in a very competitive and rapidly changing environment. New risks emerge from time to time. It is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. In light of these risks, uncertainties and assumptions, the future events and trends discussed in this report may not occur and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements. We undertake no obligation to revise or publicly release the results of any revision to these forward-looking statements, except as required by law. Given these risks and uncertainties, readers are cautioned not to place undue reliance on such forward-looking statements.

As used in this report, the terms "Marin," "Registrant," "we," "us," "our," and "the Company" mean Marin Software Incorporated and its subsidiaries unless the context indicates otherwise. References to "fiscal 2018" and "fiscal 2017" refer to the year ended December 31, 2018 and the year ended December 31, 2017, respectively.

PART I

ITEM 1. BUSINESS

We are a leading provider of digital marketing software for search, social, eCommerce and display advertising channels, offered as a unified software-as-a-service, or SaaS, advertising management platform for performance-driven advertisers and agencies. Our platform is an analytics, workflow and optimization solution for marketing professionals, allowing them to effectively manage their digital advertising spend. We market and sell our solutions to advertisers directly and through leading advertising agencies, and our customers collectively manage billions of dollars in advertising spend on our platform globally across a wide range of industries. We believe this makes us one of the largest providers of independent advertising cloud solutions. Our software solution is designed to help our customers:

measure the effectiveness of their advertising campaigns through our proprietary reporting and analytics capabilities;

manage and execute campaigns through our intuitive user interface and underlying technology that streamlines and automates key functions, such as advertisement creation and bidding, across multiple publishers and channels; and

optimize campaigns across multiple publishers and channels based on market and business data to achieve desired revenue outcomes using our predictive bid management technology.

Advertisers use our platform to create, target and convert precise audiences based on recent buying signals from users' search, social, eCommerce and display interactions. Our platform is integrated with leading publishers such as Amazon, Baidu, Bing, Facebook, Google, Instagram, Pinterest, Twitter, Verizon Media, Yahoo! Japan and Yandex. Additionally, we have integrations with more than 50 leading web analytics and advertisement-serving solutions and key enterprise applications, enabling our customers to more accurately measure the return on investment of their marketing programs.

Our software platform serves as an integration point for advertising performance, sales and revenue data, allowing advertisers to connect the dots between advertising spend and revenue outcomes. Through an intuitive interface, we enable our customers to simultaneously run large-scale digital advertising campaigns across multiple publishers and channels, making it easy for marketers to create, publish, modify and optimize campaigns.

Our predictive bid management and optimization technology also allows advertisers to forecast outcomes and optimize campaigns across multiple publishers and channels to achieve their business goals. Our optimization technology can help advertisers increase advertisement spend on those campaigns, publishers and channels that are performing well while reducing investment in those that are not. This category of solutions, which we refer to as cross-channel bid and campaign optimization, helps businesses intelligently and efficiently measure, manage, and

optimize their digital advertising spend to achieve desired business results.

Headquartered in San Francisco, we were incorporated in the State of Delaware in 2006. The mailing address of our headquarters is 123 Mission Street, 27th Floor, San Francisco, California 94105 and our telephone number at that location is (415) 399-2580.

Offered Solutions

Our cloud-based platform helps our customers to measure, manage and optimize their digital marketing campaigns to improve performance of their online advertising campaigns, realize efficiencies and time savings, and make better business decisions. We offer solutions for direct advertisers of all sizes and the agencies that represent them, including enterprise, mid-market or small businesses. We offer SaaS solutions and managed services for search, social, eCommerce and display.

Search, Social and eCommerce

Our current product lineup consists of MarinOne, which launched in 2018, and our two legacy products, Marin Search and Marin Social. We will continue to migrate customers to MarinOne over the course of 2019.

MarinOne. Our next-generation platform that brings search, social and eCommerce advertising into a single-platform. *MarinOne* helps advertisers maximize a customer journey that spans Google, Facebook and Amazon by combining the power of Marin Search and Marin Social with new channels like Amazon, Apple Search Ads and YouTube.

Marin Search. Our original product for large advertisers and agencies, *Marin Search* is designed to provide search advertisers with the power, scale and flexibility required to manage large-scale advertising campaigns.

Marin Social. Helps advertisers manage their Facebook, Instagram and Twitter advertising spend at scale.

Our platforms are comprised of the following modules:

Optimization. Our *Optimization* module helps advertisers manage bids across publishers to meet revenue goals and identify opportunities for campaign improvements, which we believe can improve financial performance and efficiencies. Forecasting capabilities help predict campaign performance, which simplifies the budgeting process for marketing departments.

Reporting and Analytics. Our *Reporting and Analytics* module enables advertisers to report results at a business level and analyze cross-channel performance trends, which we believe can lead to improved visibility and generate significant time savings.

Campaign Management. Our *Campaign Management* module provides the digital advertiser with a unified interface to create, manage and optimize campaigns across a broad range of publishers, creating greater efficiencies and increasing flexibility. Our goal is to complement and enhance the tools offered by these publishers to provide digital advertisers the ability to easily manage their campaigns on a global scale.

Connect. Our *Connect* module enables advertisers to automate and streamline the capture of revenue, cost and audience data from a range of sources such as advertisement servers, analytics systems, CRM platforms, publishers and third-party databases. Through integrations across multiple data sources, our *Connect* module can help advertisers have a holistic picture of their digital advertising campaigns.

Display – Perfect Audience

Targeting small businesses, Perfect Audience, our wholly-owned subsidiary, is designed for rapid deployment and offers customers an easy-to-use interface to implement and optimize campaigns across all major networks and across devices.

Technology & Supporting Platform

We designed our cloud-based platform to support large global advertisers. The majority of our software is written in Java. Our hardware consists of industry-standard servers and network infrastructure. Our standard operating system is Linux. Our software platform is character-set, language, currency, and time-zone independent. Our technology platform has the following key benefits:

Scalability. Our platform is designed to handle billions of advertising units across thousands of advertisers, while delivering a responsive browsing and editing experience. If the number of advertisers and resulting computing and storage requirements changes, we can add or remove hardware to our platform to accommodate the demand.

Availability. Our customers are highly dependent on the availability of our platform, which is designed to be available 24x7, 365 days a year. We operate our own hardware and use third-party data centers that offer server redundancy, back-up communications and power and physical security.

Security. Our platform manages a large quantity of customer data. We employ technologies, policies and procedures to protect customer data. Our primary third-party data center has SOC 1 attestations.

We are continuously upgrading our software platform in a manner that we believe will cost-effectively extend the scalability, speed, resiliency and availability of our services and facilitate our ability to add new features to our products.

Strategic Agreements

We have entered into long-term strategic agreements with certain leading search publishers. Under these strategic agreements, we receive consideration based on a percentage of the search advertising spend that our customers manage on our platform.

In December 2018, we entered into such an agreement with Google, under which we receive revenue share payments based on our customers' search advertising spend on Google and certain other eligible search engines. In exchange, we will reinvest a percentage of these revenue share payments to drive our technology platform innovation. This agreement went into effect on October 1, 2018, and is scheduled to terminate on September 30, 2021, although Google may terminate the agreement on September 30, 2020 if we do not meet certain financial metrics for the three month period preceding that date. This agreement and the related revenue recognition considerations are described more fully in Note 3 of the accompanying consolidated financial statements.

Customers

We market and sell our technology solutions to advertisers directly and through advertising agencies that use our platform on behalf of their customers. Advertisers that we serve through our relationships with agencies have historically represented between approximately one-third to one-half our overall revenues. We also generate revenues from leading publishers through our long-term strategic agreements.

Competition

The digital advertising cloud market is highly competitive, fragmented, and subject to changes in both technology and customer behavior. We face significant competition today and expect competition to intensify in the future. To maintain and improve our competitive position, we must keep pace with the evolving needs of our customers and continue to develop and introduce new modules, features and services in a timely and efficient manner. We currently compete with large, well-established companies, such as Adobe Systems Incorporated, Facebook, Inc., Google Inc. (through its wholly owned subsidiary DoubleClick) and Kenshoo Ltd. We also compete with in-house proprietary tools, tools from publishers and custom solutions, including spreadsheets. We believe the principal competitive factors in our market include the following:

solution quality, breadth, stability, flexibility and functionality;

tangible platform benefits;

level of customer satisfaction and our ability to respond to customer needs rapidly;

breadth and quality of advertiser and agency relationships;

ability to innovate and develop new or improved products and features while maintaining platform speed and stability;

ability to respond to changes in publishers' APIs;

brand awareness and reputation; and

size of customer base.

Apart from cross-channel platform competitors, we also compete with channel solutions in the display and social advertising markets. Competitors in the display advertising market include companies such as AdRoll Inc., Criteo S.A. , MediaMath, Inc. and Sizmek, Inc., while in the social advertising market we compete with public companies such as 4C Insights, Inc., Nanigans, Inc., Salesforce.com (through its wholly owned subsidiary Social.com) and Smartly.io Inc.

Our ability to remain competitive will largely depend on our ongoing performance in the areas of the quality, functionality and breadth of our solution and the availability and knowledgeability of our customer support.

Sales and Marketing

We sell our solutions directly to advertisers and to agencies in a wide range of industries through our global sales team. Our sales cycle can vary substantially by advertiser and agency, but can take up to nine months. We have a number of account executive sales teams organized by geography and market segments. We also have customer success professionals who are responsible for long-term customer satisfaction and retention, renewal, support and driving an increase in the volume of media managed by customers on our platform.

Our marketing team is focused on driving awareness and demand generation across major markets. This team provides thought leadership in the form of white papers, benchmarking reports, bylines, presenting at industry conferences and speaking to the press. In addition, they are responsible for the creation of field enablement assets such as case studies, blog posts and corporate and product collateral.

Research and Development

Our research and development team is responsible for the design, development, and maintenance of our platform. Our research and development process emphasizes frequent, iterative and incremental development cycles. Within our research and development organizations, we have several project teams that focus on platform and feature development for our advertising cloud solutions. Each of these project teams includes engineers, quality engineers and product managers, as needed, responsible for the initial and ongoing development for their projects.

Government Regulation

We are subject to a number of laws and regulations that affect companies conducting business in the advertising and SaaS industries and on the Internet, many of which are still evolving and could be interpreted in ways that could harm our business. The manner in which existing laws and regulations will be applied to the SaaS and advertising industries and the Internet in general and how they will relate to our business in particular, are often unclear. For example, we often cannot be certain how existing laws will apply in the eCommerce and online context, including with respect to such topics as privacy, advertising, pricing, taxation, content regulation, quality of products and services and intellectual property ownership and infringement.

Numerous laws and regulatory schemes have been adopted at the national and state level in the United States, and in some cases internationally, that have a direct impact on our business and operations. For example, in 2016 the European Union adopted the General Data Protection Regulation, or GDPR, a new regulation governing data privacy, which became effective in May 2018 and replaced the Data Protection Directive. The GDPR establishes new requirements applicable to the handling of personal data and imposes penalties for non-compliance of up to the greater

of €20,000,000 or 4% of worldwide revenue. Additionally, the California Consumer Privacy Act, or CCPA, which goes into effect on January 1, 2020, provides consumers the right to know what personal data companies collect, how it is used, and the right to access, delete and opt of sale of their personal information to third parties. It also expands the definition of personal information and gives consumers increased privacy rights and protections for that information.

Employees

As of December 31, 2018, we had a total of 292 full-time and part-time employees.

Intellectual Property

Our intellectual property rights are a key component of our success. We rely on a combination of patent, trademark, copyright, unfair competition and trade secret laws, as well as confidentiality procedures and contractual restrictions, to establish, maintain and protect our proprietary rights.

As of December 31, 2018, we had three issued patents and six patent applications (one of which is allowed) pending in the United States. We own and use trademarks on or in connection with our products and services, including two registered trademarks in the United States, Canada, the European Union, Australia, China, Japan and Russia, one registered mark in South Korea and Singapore, and unregistered common law marks and pending trademark applications in the United States, Canada and the European Union. We have also registered numerous Internet domain names.

Available Information

The mailing address of our headquarters is 123 Mission Street, 27th Floor, San Francisco, California 94105 and our telephone number at that location is (415) 399-2580. Our website is www.marinsoftware.com. Through a link on the Investor Center section of our website, we make available the following filings as soon as reasonably practicable after they are electronically filed with or furnished to the Securities and Exchange Commission, or the SEC: our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, and any amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended. All such filings are free of charge. The information posted to our website is not incorporated into this Annual Report on Form 10-K. The public may read and copy any materials that we file with the SEC at its website at www.sec.gov.

ITEM 1A. RISK FACTORS

Our operations and financial results are subject to various risks and uncertainties, including those described below, which could adversely affect our business, results of operations, cash flows, financial conditions and the trading price of our common stock.

Risks Related to Our Business

We have a history of losses and we may not achieve or sustain profitability in the future.

We have incurred significant losses in each fiscal year since our incorporation in 2006. We experienced net losses of \$41.2 million, \$31.5 million and \$16.5 million during 2018, 2017 and 2016, respectively. As of December 31, 2018, we had an accumulated deficit of \$264.7 million. The losses and accumulated deficit were due largely to the substantial investments we made to grow our business and acquire customers. Our cost of revenues and operating expenses could increase in the future due to investments to grow our business, acquire customers and develop our platform and new functionality. These efforts may prove more expensive than we currently anticipate, and we may not succeed in increasing our revenues sufficiently to offset these higher expenses. Many of our efforts to generate revenues from our business are new and unproven, and any failure to increase our revenues or generate revenues from new solutions or to maintain or increase revenues from existing products and customers could prevent us from attaining or increasing profitability. We do not expect to be profitable in 2019 on the basis of generally accepted accounting principles in the United States, or GAAP, and we cannot be certain that we will be able to attain profitability on a quarterly or annual basis, or if we do, that we will sustain profitability.

We expect to continue to incur losses and experience negative cash flows, and may need to sell additional securities, borrow additional funds or reduce operating expenses to continue as a going concern.

We currently operate at a loss and we anticipate that we will continue to have operating losses in the near term. Our business has not generated enough cash flow to fund our sales and marketing activities, research and development initiatives, and other business activities. We anticipate that increasing our market share for our current services through sales and marketing efforts, continuing development of new platform features and delivering efficient service to customers will require additional capital and expenditures. If we continue to burn cash without a corresponding increase to revenue, we will need to sell additional securities or borrow additional funds or reduce operating expenses through successful cost-cutting measures to continue as a going concern. There is no guarantee that we will be able to issue additional securities in future periods or borrow additional funds on commercially reasonable terms, or at all, in order to meet our cash needs. Further, there is no guarantee that we will be able to successfully reduce our operating expenses through successful cost-cutting measures. Our ability to continue as a going concern may be adversely affected if we are unable to raise additional cash or reduce our operating expenses.

We might require additional capital to support business growth, and this capital might not be available on acceptable terms, if at all.

We intend to continue to make investments to support our business growth and may require additional funds to respond to business challenges, including the need to develop new features or enhance our existing platform, improve our operating infrastructure or acquire complementary businesses and technologies. Accordingly, we may need to engage in equity or debt financings to secure additional funds. If we raise additional funds through further issuances of equity or convertible debt securities, our existing stockholders could suffer significant dilution, and any new equity securities we issue could have rights, preferences and privileges superior to those of holders of our common stock. Any debt financing secured by us in the future could involve restrictive covenants relating to our capital raising activities and other financial and operational matters, which may make it more difficult for us to obtain additional capital and to pursue business opportunities, including potential acquisitions. In addition, we may not be able to obtain additional financing on terms favorable to us, if at all. If we are unable to obtain adequate financing or financing on terms satisfactory to us, when we require it, our ability to continue to support our business growth and to respond to business challenges could be significantly impaired.

We operate in a rapidly developing and changing industry, which makes it difficult to evaluate our current business and future prospects.

We have encountered and will continue to encounter risks and difficulties frequently experienced by companies in rapidly developing and changing industries, including challenges in forecasting accuracy, hiring and retaining qualified employees, determining appropriate investments of our limited resources, market acceptance of our existing and future solutions, effectively integrating acquired products, competition from established companies with greater financial and technical resources, acquiring and retaining customers, managing customer deployments, making improvements to our existing products and developing new solutions. Our current operations infrastructure may require changes in order for us to achieve profitability and scale our operations efficiently. For example, we may need to automate portions of our solution to decrease our costs, ensure our marketing infrastructure is designed to drive highly qualified leads cost effectively and implement changes in our sales model to improve the predictability of our sales and reduce our sales cycle. In addition, from time to time, we may need to make additional investments in product development to address market demands, which may increase our overall expenses and reduce our ability to achieve profitability. If we fail to implement these changes in a timely manner or are unable to implement them due to factors beyond our control, our business may suffer, our revenue may decline and we may not be able to achieve growth or profitability. We cannot be assured that we will be successful in addressing these and other challenges we may face in the future.

Our usage-based pricing model makes it difficult to forecast revenues from our current customers and future prospects.

We primarily have a usage-based pricing model in which most of our fees are calculated as a percentage of customers' advertising spend managed on our platform. This pricing model makes it difficult to accurately forecast revenues because our customers' advertising spend managed by our platform may vary from month to month based on the

variety of industries in which our advertisers operate, the seasonality of those industries and fluctuations in our customers' advertising budgets or other factors. Our subscription contracts with our direct advertiser customers generally contain a minimum monthly platform fee, which is generally greater than one-half of our estimated monthly revenues from the customer at the time the contract is signed, and, as a result, the minimum monthly platform fee may not be a good indicator of our revenues from that customer. In addition, advertisers that use our platform through our agency customers typically do not have a minimum monthly spend amount or a minimum term during which they must use our platform, and as a result, our ability to forecast revenues from these advertisers is difficult. If we incorrectly forecast revenues for these advertisers and the amount of revenue is less than projections we provide to investors, the price of our common stock could decline substantially. Additionally, if we overestimate usage, we may incur additional expenses in adding infrastructure, without a commensurate increase in revenues, which would harm our gross margins and other operating results.

We must develop and introduce enhancements and new features that achieve market acceptance or that keep pace with technological developments to remain competitive in our evolving industry.

We operate in a dynamic market characterized by rapidly changing technologies and industry and legal standards. The introduction of new advertising platform solutions by our competitors, the market acceptance of solutions based on new or alternative technologies, or the emergence of new industry standards could render our platform obsolete. Our ability to compete successfully, attract new customers and increase revenues from existing customers depends in large part on our ability to enhance and improve our existing cross-channel, cross-device, enterprise marketing software platform and to continually introduce or acquire new features that are in demand by the market we serve. We also must update our software to reflect changes in publishers' APIs and terms of use. We are in the process of a significant upgrade to our software platform infrastructure, and the success of this project or any other enhancement or new solution depends on several factors, including timely completion, adequate quality testing, effective migration of existing customers with minimal disruption and appropriate introduction and market acceptance. Any new platform or feature that we develop or acquire may not be introduced in a timely manner, may contain defects, may be more costly to compete than we anticipate or may not achieve the broad market acceptance necessary to generate significant revenues. If we are unable to complete the upgrade to our software platform infrastructure effectively or in a timely manner, or to anticipate or timely and successfully develop or acquire new offerings or features or enhance our existing platform to meet customer requirements, our business and operating results will be adversely affected.

If the market for digital advertising slows or declines, our business, growth prospects, and financial condition would be adversely affected.

The future growth of our business could be constrained by the level of acceptance and expansion of emerging cloud-based advertising channels, as well as the continued use and growth of existing channels, such as search and display advertising. Even if these channels become widely adopted, advertisers and agencies may not make significant investments in solutions such as ours that help them manage their digital advertising spend across publisher platforms and advertising channels. It is difficult to predict customer adoption rates, customer demand for our platform, the future growth rate and size of the advertising cloud solutions market or the entry of competitive solutions. The continued expansion of the market for advertising cloud solutions depends on a number of factors, including the continued growth of the cloud-based advertising market, the growth of social and mobile as advertising channels and the cost, performance and perceived value associated with advertising cloud solutions, as well as the ability of cloud computing companies to address security and privacy concerns. Further, the cloud computing market is less developed in many jurisdictions outside the United States. If we or other cloud computing providers experience security incidents, loss of customer data, disruptions in delivery or other problems, the market for cloud computing as a whole, including our applications, may be negatively affected.

If we are unable to maintain our relationships with, and access to, publishers, advertising exchange platforms and other platforms that aggregate the supply of advertising inventory, our business will suffer.

We currently depend on relationships with various publishers, including Amazon, Baidu, Bing, Facebook, Google, Instagram, Pinterest, Twitter, Verizon Media and Yahoo! Japan, as well as advertising exchange platforms and aggregators of advertising inventory, including Google's DoubleClick Ad Exchange, Facebook's Exchange, Microsoft's Ad Exchange, Twitter's MoPub, OpenX, The Rubicon Project, PubMatic and AppNexus. Our subscription services interface with these publishers' platforms through APIs, such as the Google AdWords API or Facebook API. We are subject to the respective platforms' standard API terms and conditions, which govern the use and distribution of data from these platforms. Our business significantly depends on having access to these APIs, particularly the Google AdWords API, which the substantial majority of our customers use, on commercially reasonable terms and our business would be harmed if any of these publishers, advertising exchanges or aggregators of advertising inventory discontinues or limits access to their platforms, modifies their terms of use or other policies or place additional restrictions on us as API users, or charges API license fees for API access. Moreover, some of these publishers, such as Google, market competitive solutions for their platforms. Because the advertising inventory suppliers control their APIs, they may develop competitive offerings that are not subject to the limits imposed on us through the API terms and conditions. Currently, restrictions in these API agreements limit our ability to implement certain functionality, require us to implement functionality in a particular manner or require us to implement certain required minimum functionality, causing us to devote development resources to implement certain functionality that we would not otherwise include in our subscription services and to incur costs for personnel to provide services to implement functionality that we are prohibited from automating. Publishers, advertising exchanges and advertising inventory aggregators update their API terms of use from time to time and new versions of these terms could impose additional restrictions on us. In addition, publishers, advertising exchanges and advertising inventory aggregators continually update their APIs and may update or modify functionality, which requires us to modify our software to accommodate these changes and to devote technical resources and personnel to these efforts which could otherwise be used to focus on other priorities. Any of these outcomes could cause demand for our products to decrease, our research and development costs to increase, and our results of operations and financial condition to be harmed.

Our growth depends in part on the success of our relationships with advertising agencies.

Our future growth will depend, in part, on our ability to enter into successful relationships with advertising agencies. Identifying agencies and negotiating and documenting relationships with them requires significant time and resources. These relationships may not result in additional customers or enable us to generate significant revenues. Our contracts for these relationships are typically non-exclusive and do not prohibit the agency from working with our competitors or from offering competing services. Frequently, these agencies do in fact work with our competitors and compete with us. In addition, we often work with, or seek to work with, high-profile brands directly. This may not be possible where, for example, those brands obtain advertising services exclusively or primarily from advertising agencies.

We generally bill agencies for their customers' use of our platform, but in most cases the agency's customer has no direct contractual commitment to make payment to us. Furthermore, some of these agency contracts include provisions whereby the agency is not liable for making payment to us for our subscription services if the agency does not receive a corresponding payment from its client on whose behalf the subscription services were rendered. These provisions may result in longer collections periods or our inability to collect payment for some of our subscription services. If we are unsuccessful in establishing or maintaining our relationships with these agencies on commercially reasonable terms, or if these relationships are not profitable for us, our ability to compete in the marketplace or to grow our revenues could be impaired and our operating results would suffer.

We may not be able to compete successfully against current and future competitors.

The overall market for advertising cloud solutions is rapidly evolving, highly competitive, complex, fragmented, and subject to changing technology and shifting customer needs. We face significant competition in this market and we expect competition to intensify in the future. We currently compete with large, well-established companies, such as Adobe Systems Incorporated and Google Inc. (through its wholly owned subsidiary DoubleClick), and privately-held companies, such as Kenshoo Ltd. We also compete with channel-specific offerings, in-house proprietary tools, tools from publishers and custom solutions, including spreadsheets. Increased competition may result in reduced pricing for our solutions, longer sales cycles or a decrease of our market share, any of which could negatively affect our revenues and future operating results and our ability to grow our business.

A number of competitive factors could cause us to lose potential sales or to sell our solutions at lower prices or at reduced margins, including, among others:

publishers generally offer their tools for free, or at a reduced price, as their primary compensation is via the sale of advertising on their own or syndicated websites;

some of our competitors, such as Adobe, Facebook and Google, have greater financial, marketing and technical resources than we do, allowing them to leverage a larger installed customer base, adopt more aggressive pricing policies, and devote greater resources to the development, promotion and sale of their products and services than we can;

channel-specific competitors, such as AdRoll Inc., Criteo S.A., Kenshoo Ltd., Nanigans, Inc. and Salesforce.com (through its wholly owned subsidiary Social.com), may devote greater resources to the development, promotion and sale of their channel-specific products and services than we can;

companies may enter our market by expanding their platforms or acquiring a competitor; and

potential customers may choose to develop or continue to use internal solutions rather than paying for our solutions or may choose to use a competitor's solution that has different or additional technical capabilities.

We cannot assure you that we will be able to compete successfully against current and future competitors. If we cannot compete successfully, our business, results of operations and financial condition could be negatively impacted.

Our business depends on our customers' continued willingness to manage advertising spend on our platform.

In order for us to improve our operating results, it is important that our customers continue to manage their advertising spend on our platform, increase their usage and also purchase additional solutions from us. In the case of our direct advertiser customers, we offer our solutions primarily through subscription contracts and generally bill customers over the related subscription period, which is generally one year or longer. During the term of their contracts, our direct advertiser customers generally have no obligation to maintain or increase their advertising spend on our platform beyond a specified minimum monthly platform fee, which is typically set at the time the contract is signed and is generally greater than half of the monthly amount we anticipate the customer will spend. Our direct advertiser customers generally have no renewal obligation after the initial or then-current renewal subscription period expires, and even if customers renew contracts, they may decrease the level of their digital advertising spend managed through our platform, resulting in lower revenues from that customer. Advertisers that we serve through our arrangements with our advertising agencies generally do not have any contractual commitment to use our platform. Our customers' usage may decline or fluctuate as a result of a number of factors, including, but not limited to, their satisfaction with our platform and our customer support, the frequency and severity of outages, the pricing of our, or competing, solutions, the effects of global economic conditions and reductions in spending levels or changes in our customers' strategies regarding digital advertising. We may not be able to accurately predict future usage trends. If our customers renew on less favorable terms or reduce their advertising spend on our platform, our revenues may grow more slowly than expected or decline.

We incur upfront costs associated with onboarding advertisers to our platform and may not recoup our investment if we do not maintain the advertiser relationship over time.

Our operating results may be negatively affected if we are unable to recoup our upfront costs for onboarding new advertisers to our platform. Upfront costs when adding new advertisers generally include sales commissions for our sales force, expenses associated with entering customer data into our platform and other implementation-related costs. Because our customers, including direct advertisers and agencies, are billed over the term of the contract, if new customers sign contracts with short initial subscription periods and do not renew their subscriptions, or otherwise do not continue to use our platform to a level that generates revenues in excess of our upfront expenses, our operating results could be negatively impacted. In cases in which the implementation process is particularly complex, the revenues resulting from the customer under our contract may not cover the upfront investment; therefore, if a significant number of these customers do not renew their contracts, it could negatively affect our operating results. In addition, because we capitalize certain upfront costs to obtain and fulfill contracts under authoritative accounting guidance, we could be required to record impairment expense for these upfront costs that are not covered by the underlying revenues.

Because we generally bill our customers over the term of the contract, near term decline in new or renewed subscriptions may not be reflected immediately in our operating results.

Most of our revenues in each quarter are derived from contracts entered into with our customers during previous quarters. Consequently, a decline in new or renewed subscriptions in any one quarter may not be fully reflected in our revenues for that quarter. Such declines, however, would negatively affect our revenues in future periods and the effect of significant downturns in sales and market acceptance of our solutions, and potential changes in our rate of renewals or renewal terms, may not be fully reflected in our results of operations until future periods. In addition, we may be unable to adjust our cost structure rapidly, or at all, to take account of reduced revenues. Our subscription model also makes it difficult for us to rapidly increase our total revenues through additional sales in any period, as revenues from new customers must be earned over the applicable subscription term based on the value of their monthly advertising spend.

We have been dependent on our customers' use of search advertising. Any decrease in the use of search advertising or our inability to further penetrate social and display advertising channels would harm our business, growth prospects, operating results and financial condition.

Historically, our customers have primarily used our solutions for managing their search advertising, including mobile search advertising, and the substantial majority of our revenue is derived from advertisers that use our platform to manage their search advertising. We expect that search advertising will continue to be the primary channel used by our customers for the foreseeable future. Should our customers lose confidence in the value or effectiveness of search advertising, or if search advertising growth moderates or declines, the demand for our solutions may decline, and it may negatively impact our revenues. In addition, our failure to achieve market acceptance of our solution for the management of social and display advertising spend would harm our growth prospects, operating results and financial condition.

Our sales cycle can be long and unpredictable and require considerable time and expense, which may cause our operating results to fluctuate.

The sales cycle for our solutions, from initial contact with a potential lead to contract execution and implementation, varies widely by customer, but can take up to nine months. Some of our customers undertake a significant evaluation process that frequently involves not only our solutions but also those of our competitors, which has in the past resulted in extended sales cycles. Our sales efforts involve educating our customers about the use, technical capabilities and benefits of our platform. In addition, under certain circumstances, we sometimes offer an initial term, typically of a few months in duration, to new customers who may terminate their subscription at any time during this initial period before the fixed term contract commences. We have no assurance that the substantial time and money spent on our sales efforts will produce any sales. If our sales efforts result in a new customer subscription, the customer may terminate its subscription during the initial period, after we have incurred the expenses associated with entering the customer's data in our platform and related training and support. If sales expected from a customer are not realized in the time period expected or not realized at all, or if a customer terminates during the initial period, our business, operating results and financial condition could be adversely affected.

Our ability to generate revenue depends on our collection of significant amounts of data from various sources.

Our ability to optimize the delivery of Internet advertisements for our customers depends on our ability to successfully leverage data, including data that we collect from our customers as well as data provided by publishers and from third parties. Using cookies and similar tracking technologies, we collect information about the interaction of users with our advertisers' and publishers' websites. Our ability to successfully leverage such data is dependent upon our continued ability to access and utilize such data. Our ability to access and use such data could be restricted by a number of factors, including consumer choice, restrictions imposed by advertisers and publishers, changes in technology, and new developments in laws, regulations, and industry standards.

If consumer resistance to the collection and sharing of the data used to deliver targeted advertising, increased visibility of consent / Do Not Track mechanisms as a result of industry regulatory and/or legal developments, and/or the development and deployment of new technologies result in a material impact on our ability to collect data, this will materially impair the results of our operations.

Material defects or errors in our software platform could harm our reputation, result in significant costs to us and impair our ability to sell our subscription services.

The software applications underlying our subscription services are inherently complex and may contain material defects or errors, which may cause disruptions in availability, misallocation of advertising spend or other performance problems. Any such errors, defects, disruptions in service or other performance problems with our software platform, including those resulting from new versions or updates, could negatively impact our customers' businesses or the

success of their advertising campaigns and cause harm to our reputation. If we have any errors, defects, disruptions in service or other performance problems with our software platform, customers could elect not to renew or reduce their usage or delay or withhold payment to us, which could result in an increase in our provision for doubtful accounts or an increase in the length of collection cycles for accounts receivable. Errors, defects, disruptions in service or other performance problems could also result in customers making warranty or other claims against us, our giving credits to our customers toward future advertising spend or costly litigation. As a result, material defects or errors in our platform could have a material adverse impact on our business and financial performance.

The costs incurred in correcting any material defects or errors in our software platform may be substantial and could adversely affect our operating results. After the release of new versions of our software, defects or errors may be identified from time to time by our internal team and by our customers. We implement bug fixes and upgrades as part of our regularly scheduled system maintenance. If we do not complete this maintenance according to schedule or if customers are otherwise dissatisfied with the frequency and/or duration of our maintenance services, customers could elect not to renew, or delay or withhold payment to us, or cause us to issue credits, make refunds or pay penalties.

We primarily derive our revenues from a single software platform and any factor adversely affecting subscriptions to our platform could harm our business and operating results.

We primarily derive our revenues from sales of a single software platform. As such, any factor adversely affecting subscriptions to our platform, including product release cycles, market acceptance, product competition, performance and reliability, reputation, price competition, and economic and market conditions, could harm our business and operating results.

If mobile connected devices, their operating systems or content distribution channels, including those controlled by our competitors, develop in ways that prevent our advertising campaigns from being delivered to their users, our ability to grow our business will be impaired.

Our success in the mobile channel depends upon the ability of our technology platform to integrate with mobile inventory suppliers and provide advertising for most mobile connected devices, as well as the major operating systems that run on them and the applications that are downloaded onto them. The design of mobile devices and operating systems is controlled by third parties with whom we do not have any formal relationships. These parties frequently introduce new devices, and from time to time they may introduce new operating systems or modify existing ones. Network carriers may also impact the ability to access specified content on mobile devices. If our solution were unable to work on these devices or operating systems, either because of technological constraints or because an operating system or app developer, device maker or carrier wished to impair our ability to purchase inventory and provide advertisements, our ability to generate revenue could be significantly harmed.

We primarily use third-party data centers to deliver our services. Any disruption of service at these facilities could harm our business.

We manage a significant portion of our services and serve substantially all of our customers from only a single third-party data center facility. While we control the actual computer, network and storage systems upon which our platform runs, and deploy them to the data center facility, we do not control the operation of the facility. The owner of the facility has no obligation to renew the agreement with us on commercially reasonable terms, or at all. If we are unable to renew the agreement on commercially reasonable terms, we may be required to transfer to a new facility or facilities, and we may incur significant costs and possible service interruption in connection with doing so.

The facility is vulnerable to damage or service interruption resulting from human error, intentional bad acts, earthquakes, hurricanes, floods, fires, war, terrorist attacks, power losses, hardware failures, systems failures, telecommunications failures and similar events. Moreover, while we have a disaster recovery plan in place, we do not maintain a "hot failover" instance of our software platform permitting us to immediately switch over in the event of damage or service interruption at our data center. The occurrence of a natural disaster or an act of terrorism, any outages or vandalism or other misconduct, or a decision to close the facility without adequate notice or other unanticipated problems could result in lengthy interruptions in our services.

Any changes in service levels at the facility or any errors, defects, disruptions or other performance problems at or related to the facility that affect our services could harm our reputation and may damage our customers' businesses. For instance, in December 2017, researchers identified significant CPU architecture vulnerabilities commonly known as "Spectre" and "Meltdown" that have required software updates and patches to mitigate such vulnerabilities, and such updates and patches may require servers to go offline and may potentially slow their performance. Interruptions in our services might reduce our revenues, subject us to potential liability, or result in reduced usage of our platform. In addition, some of our customer contracts require us to issue credits for downtime in excess of certain levels and in some instances give our customers the ability to terminate their subscriptions.

We also depend on third-party Internet-hosting providers and continuous and uninterrupted access to the Internet through third-party bandwidth providers to operate our business. If we lose the services of one or more of our Internet-hosting or bandwidth providers for any reason or if their services are disrupted, for example due to viruses or "denial-of-service" or other attacks on their systems, or due to human error, intentional bad acts, power loss, hardware failures, telecommunications failures, fires, wars, terrorist attacks, floods, earthquakes, hurricanes, tornadoes or similar events, we could experience disruption in our ability to offer our solutions or we could be required to retain the services of replacement providers, which could increase our operating costs and harm our business and reputation.

If we cannot efficiently implement our solutions for customers, we may lose customers.

Our customers have a variety of different data formats, enterprise applications and infrastructure and our platform must support our customers' data formats and integrate with complex enterprise applications and infrastructures. If our platform does not currently support a customer's required data format or appropriately integrate with a customer's applications and infrastructure, then we may choose to configure our platform to do so, which would increase our expenses. Additionally, we do not control our customers' implementation schedules. As a result, as we have experienced in the past, if our customers do not allocate internal resources necessary to meet their implementation responsibilities or if we face unanticipated implementation difficulties, the implementation may be delayed. Further, in the past, our implementation capacity has at times constrained our ability to successfully implement our solutions for our customers in a timely manner, particularly during periods of high demand. If the customer implementation process is not executed successfully or if execution is delayed, we could incur significant costs, customers could become dissatisfied and decide not to increase usage of our platform, not to use our platform beyond an initial period prior to their term commitment and revenue recognition could be delayed. In addition, competitors with more efficient operating models with lower implementation costs could penetrate our customer relationships.

Additionally, large customers may request or require specific features or functions unique to their particular business processes, which increase our upfront investment in sales and deployment efforts and the revenues resulting from the customers under our typical contract length may not cover the upfront investments. If prospective large customers require specific features or functions that we do not offer, then the market for our solution will be more limited and our business could suffer. In addition, supporting large customers could require us to devote significant development services and support personnel and strain our personnel resources and infrastructure. If we are unable to address the needs of these customers in a timely fashion or further develop and enhance our solution, these customers may not renew their subscriptions, seek to terminate their relationship with us, renew on less favorable terms, or reduce their advertising spend on our platform. If any of these were to occur, our revenues may decline and our operating results could be adversely affected.

If we are unable to maintain or expand our sales and marketing capabilities, we may not be able to generate anticipated revenues.

Increasing our customer base and achieving broader market acceptance of our software platform will depend to a significant extent on our ability to expand our sales and marketing operations and activities. We are substantially dependent on our sales force to obtain new customers and our marketing organization to generate a sufficient pipeline of qualified sales leads. We may expand our sales team in order to increase revenues from new and existing customers and to further penetrate our existing markets and expand into new markets, but may not be able to attract and hire qualified sales personnel quickly enough or at all. Our solutions require a sophisticated sales force with specific sales skills and technical knowledge. Competition for qualified sales personnel is intense, and we may not be able to retain our existing sales personnel or attract, integrate, train or retain sufficient highly qualified sales personnel. In addition, we need to invest in lead generation activities to develop our pipeline of qualified opportunities for our sales force, which could increase our marketing expenses. If our lead generation activities do not increase our pipeline or if our sales force is unable to close opportunities at a high rate, then we may not generate an increase in revenues.

Any failure to offer high-quality technical support services may adversely affect our relationships with our customers and harm our financial results.

Our customers depend on our support organization to resolve any technical issues relating to our solutions. In addition, our sales process is highly dependent on the quality of our solutions, our business reputation and on strong recommendations from our existing customers. Any failure to maintain high-quality technical support, or a market perception that we do not maintain high-quality support, could harm our reputation, adversely affect our ability to sell our solutions to existing and prospective customers, and harm our business, operating results and financial condition.

We offer technical support services with our solutions and may be unable to respond quickly enough to accommodate short-term increases in customer demand for support services. We also may be unable to modify the format of our support services to compete with changes in support services provided by competitors. It is difficult to predict customer demand for technical support services and if customer demand increases significantly, we may be unable to provide satisfactory support services to our customers. Additionally, increased customer demand for these services, without corresponding revenues, could increase costs and adversely affect our operating results.

If our security measures are breached or unauthorized access to customer data or our data is otherwise obtained, our solutions may be perceived as not being secure, customers may reduce the use of or stop using our solutions and we may incur significant liabilities.

In the ordinary course of our business, we maintain sensitive data on our networks, including our intellectual property and proprietary or confidential business information relating to our business and that of our customers and business partners. The secure maintenance of this information is critical to our business and reputation. We believe that companies have been increasingly subject to a wide variety of security incidents, cyber-attacks and other attempts to gain unauthorized access. These threats can come from a variety of sources, ranging in sophistication from an individual hacker to a state-sponsored attack. Cyber threats may be generic, or they may be custom-crafted against our information systems. Cyber-attacks have become more prevalent and much harder to detect and defend against. Our network and storage applications may be subject to unauthorized access by hackers or breached due to operator error, malfeasance or other system disruptions. It is often difficult to anticipate or immediately detect such incidents and the damage caused by such incidents. These data breaches and any unauthorized access or disclosure of our information or intellectual property could result in the loss of information, litigation, indemnity obligations and other liability. While we have security measures in place, our systems and networks are subject to ongoing threats and therefore these security measures may be breached as a result of third-party action, including cyber-attacks or other intentional misconduct by computer hackers, employee error, malfeasance or otherwise. This could result in one or more third parties obtaining unauthorized access to our customers' data or our data, including intellectual property and other confidential business information. Because techniques used to obtain unauthorized access or to sabotage systems change frequently and generally are not recognized until launched against a target, we may be unable to anticipate these techniques or to implement adequate preventative measures. Third parties may also attempt to fraudulently induce employees or customers into disclosing sensitive information such as user names, passwords or other information in order to gain access to our customers' data or our data, including intellectual property and other confidential business information. If an actual or perceived breach of our security occurs, the market perception of the effectiveness of our security measures could be harmed, we could lose potential sales and existing customers or we could incur other liabilities, which could adversely affect our business.

Our growth depends in part on the success of our strategic relationships with third parties.

Our future growth will depend on our ability to enter into and retain successful strategic relationships with third parties. For example, we are seeking to establish relationships with third parties to develop integrations with complementary technology and content. These relationships may not result in additional customers or enable us to generate significant revenues. Identifying partners and negotiating and documenting relationships with them require significant time and resources. Our contracts for these relationships are typically non-exclusive and do not prohibit the other party from working with our competitors or from offering competing services. If we are unsuccessful in establishing or maintaining our relationships with these third parties, our ability to compete in the marketplace or to grow our revenues could be impaired and our operating results would suffer.

As a result of our customers' usage of our software platform, we will need to continually improve our hosting infrastructure to avoid service interruptions or slower system performance.

We have experienced growth in the number of transactions and data that our hosting infrastructure supports. We seek to maintain sufficient excess capacity in our infrastructure to meet the needs of all of our customers. We also seek to maintain excess capacity to facilitate the rapid provision of new customer deployments and the expansion of existing customer deployments. For example, if we secure a large customer or a group of customers that require significant amounts of bandwidth or storage, we may need to increase bandwidth, storage, power or other elements of our application architecture and our infrastructure, and our existing systems may not be able to scale in a manner satisfactory to our existing or prospective customers.

The amount of infrastructure needed to support our customers is based on our estimates of anticipated usage. If we were to experience unforeseen increases in usage, we could be required to increase our infrastructure investments resulting in increased costs or reduced gross margins, and if we do not accurately predict our infrastructure capacity requirements, our customers could experience service outages that may subject us to financial penalties and liabilities and result in customer losses. If our hosting infrastructure capacity fails to keep pace with increased sales, customers may experience service interruptions or slower system performance as we seek to obtain additional capacity, which could harm our reputation and adversely affect our revenue growth. As use of our software platform grows and as customers use it for more complicated tasks, we will need to devote additional resources to improving our application architecture and our infrastructure in order to maintain the performance of our software platform. We may need to incur additional costs to upgrade or expand our computer systems and architecture in order to accommodate increased demand if our systems cannot handle current or higher volumes of usage. In addition, increasing our systems and infrastructure in advance of new customers would cause us to have increased cost of revenues, which can adversely affect our gross margins until we increase revenues that are spread over the increased costs.

Any failure to protect our intellectual property rights could impair our ability to protect our proprietary technology and our brand.

Our success and ability to compete depends in part upon our intellectual property. We primarily rely on a combination of copyright, trade secret and trademark laws, as well as confidentiality procedures and contractual restrictions with our employees, customers, partners and others to establish and protect our intellectual property rights. However, the steps we take to protect our intellectual property rights may be inadequate or we may be unable to secure intellectual property protection for all of our solutions. In particular, we have three issued U.S. patents.

If we are unable to protect our intellectual property, our competitors could use our intellectual property to market products and services similar to ours and our ability to compete effectively would be impaired. Moreover, others may independently develop technologies that are competitive to ours or infringe our intellectual property. The enforcement of our intellectual property rights depends on our legal actions against these infringers being successful, but we cannot be sure these actions will be successful, even when our rights have been infringed. In addition, defending our intellectual property rights might entail significant expense and diversion of management resources. Any of our intellectual property rights may be challenged by others or invalidated through administrative processes or litigation. Any patents issued in the future may not provide us with competitive advantages or may be successfully challenged by third parties.

Furthermore, legal standards relating to the validity, enforceability and scope of protection of intellectual property rights are uncertain. Effective protection of our intellectual property may not be available to us in every country in which our solutions are available. The laws of some foreign countries may not be as protective of intellectual property rights as those in the United States, and mechanisms for enforcement of intellectual property rights may be inadequate. Accordingly, despite our efforts, we may be unable to prevent third parties from infringing upon or misappropriating our intellectual property.

We might be required to spend significant resources to monitor and protect our intellectual property rights, and our efforts to enforce our intellectual property rights may be met with defenses, counterclaims and countersuits attacking the validity and enforceability of our intellectual property rights. Litigation to protect and enforce our intellectual property rights could be costly, time-consuming and distracting to management, whether or not it is resolved in our favor, and could ultimately result in the impairment or loss of portions of our intellectual property.

We could incur substantial costs as a result of any claim of infringement of another party's intellectual property rights.

In recent years, there has been significant litigation in the United States involving patents and other intellectual property rights. Companies in the Internet and technology industries are increasingly bringing and becoming subject to suits alleging infringement of proprietary rights, particularly patent rights, and our competitors may hold patents or have pending patent applications, which could be related to our business. These risks have been amplified by the increase in third parties, which we refer to as non-practicing entities, whose sole primary business is to assert such claims. We have received in the past, and expect to receive in the future, notices that claim we or our customers using our solutions have misappropriated or misused other parties' intellectual property rights. If we are sued by a third party that claims that our technology infringes its rights, the litigation could be expensive and could divert our management resources. We do not currently have an extensive patent portfolio of our own, which may limit the defenses available to us in any such litigation.

In addition, in most instances, we have agreed to indemnify our customers against certain claims that our subscription services infringe the intellectual property rights of third parties. Our business could be adversely affected by any significant disputes between us and our customers as to the applicability or scope of our indemnification obligations to them. The results of any intellectual property litigation to which we might become a party, or for which we are required to provide indemnification, may require us to do one or more of the following:

cease offering or using technologies that incorporate the challenged intellectual property;

make substantial payments for legal fees, settlement payments or other costs or damages;

obtain a license, which may not be available on reasonable terms, to sell or use the relevant technology; or

redesign technology to avoid infringement.

If we are required to make substantial payments or undertake any of the other actions noted above as a result of any intellectual property infringement claims against us or any obligation to indemnify our customers for such claims, such payments or costs could have a material adverse effect upon our business and financial results.

Our use of open source technology could impose limitations on our ability to commercialize our software platform.

We use open source software in our platform. Some open source software licenses require users who distribute open source software as part of their software to publicly disclose all or part of the source code to such software and/or make available any derivative works of the open source code on unfavorable terms or at no cost. The terms of various open source licenses have not been interpreted by the U.S. courts, and there is a risk that such licenses could be construed in a manner that imposes unanticipated conditions or restrictions on our ability to market our software platform. While we monitor our use of open source software and try to ensure that none is used in a manner that would require us to disclose our source code or that would otherwise breach the terms of an open source agreement, such use could inadvertently occur and we may be required to release our proprietary source code, pay damages for breach of contract, re-engineer our applications, discontinue sales in the event re-engineering cannot be accomplished on a timely basis or take other remedial action that may divert resources away from our development efforts, any of which could cause us to breach customer contracts, harm our reputation, result in customer losses or claims, increase our costs or otherwise adversely affect our business and operating results.

Because our long-term success depends, in part, on our ability to expand our sales to customers outside the United States, our business will be susceptible to risks associated with international operations.

We currently have personnel and/or customers in China, England, France, Ireland, Japan and Singapore, as well as the United States. Due to our international exposure, our business is susceptible to risks associated with international operations. However, we have a limited operating history outside the United States, and our ability to manage our business and conduct our operations internationally requires considerable management attention and resources and is subject to particular challenges of supporting a rapidly growing business in an environment of diverse cultures, languages, customs, tax laws, legal systems, alternate dispute systems and regulatory systems. The risks and challenges associated with international expansion include:

the need to support and integrate with local publishers and partners;

continued localization of our platform, including translation into foreign languages and associated expenses;

competition with companies that have greater experience in the local markets than we do or who have pre-existing relationships with potential customers in those markets;

compliance with multiple, potentially conflicting and changing governmental laws and regulations, including employment, tax, privacy and data protection laws and regulations;

compliance with anti-bribery laws, including compliance with the Foreign Corrupt Practices Act;

difficulties in invoicing and collecting in foreign currencies and associated foreign currency exposure;

difficulties in staffing and managing foreign operations and the increased travel, infrastructure and legal compliance costs associated with international operations;

different or lesser protection of our intellectual property rights;

difficulties in enforcing contracts and collecting accounts receivable, longer payment cycles and other collection difficulties;

restrictions on repatriation of earnings; and

regional economic and political conditions.

We have limited experience in marketing, selling and supporting our subscription services internationally, which increases the risk that any potential future expansion efforts that we may undertake will not be successful.

Fluctuations in the exchange rate of foreign currencies could result in currency transactions losses.

We currently have foreign sales denominated in Australian Dollars, British Pound Sterling, Chinese Yuan, Euros, Japanese Yen and Singaporean Dollars. In addition, we incur a portion of our operating expenses in the currencies of the countries where we have offices. We face exposure to adverse movements in currency exchange rates, which may cause our revenues and operating results to differ materially from expectations. If the U.S. Dollar continues to strengthen relative to foreign currencies as it has been doing since the second quarter of 2018, our non-U.S. revenues would be adversely affected. Conversely, a decline in the U.S. Dollar relative to foreign currencies would increase our non-U.S. revenues when translated into U.S. Dollars. Our operating results could be negatively impacted depending on the amount of expense denominated in foreign currencies. As exchange rates vary, revenues, cost of revenues, operating expenses and other operating results, when translated, may differ materially from expectations. In addition, our revenues and operating results are subject to fluctuation if our mix of U.S. and foreign currency-denominated transactions or expenses changes in the future because we do not currently hedge our foreign currency exposure. Even if we were to implement hedging strategies to mitigate foreign currency risk, these strategies might not eliminate our exposure to foreign exchange rate fluctuations and would involve costs and risks of their own, such as ongoing management time and expertise, external costs to implement the strategies and potential accounting implications.

Unfavorable conditions in the market for digital advertising or the global economy or reductions in digital advertising spend could limit our ability to grow our business and negatively affect our operating results.

Revenue growth and potential profitability of our business depends on digital advertising spend by advertisers in the markets we serve. Our operating results may vary based on changes in the market for digital advertising or the global economy. To the extent that weak economic conditions cause our customers and potential customers to freeze or reduce their advertising budgets, particularly digital advertising, demand for our solution may be negatively affected.

Historically, economic downturns have resulted in overall reductions in advertising spend. If economic conditions deteriorate or the rise of geopolitical instability and military hostilities causes economic uncertainty, our customers and potential customers may elect to decrease their advertising budgets or defer or reconsider software and service purchases, which would limit our ability to grow our business and negatively affect our operating results.

We have experienced turnover in our senior management, and the loss of key personnel or an ability to attract, retain and motivate qualified personnel may result in operational inefficiencies that could negatively affect our business.

Our success depends upon the continued service of our talented management, operational and key technical employees, as well as our ability to continue to attract additional highly qualified talent. Turnover amongst our employees could result in operational and administrative inefficiencies and added costs, which could adversely impact our results of operations, stock price and customer relationships, and could make recruiting for future management and other positions more difficult. In addition, we must successfully integrate any new senior management and other new personnel within our organization in order to achieve our operating objectives, and changes in other key positions may temporarily affect our financial performance and results of operations as new employees become familiar with our business.

We do not maintain key person life insurance policies on any of our employees. Each of our executive officers, key technical personnel and other employees could terminate his or her relationship with us at any time. Our business also requires skilled technical, sales and other personnel, who are in high demand and are often subject to competing offers. As we expand into additional geographic markets, we will require personnel with expertise in these new areas. Competition for qualified employees is intense in our industry and particularly in San Francisco, California. An inability to retain, attract, relocate and motivate employees required for our business, including the planned expansion of our business, could delay or prevent the achievement of our business objectives and could materially harm our business and our customer relationships.

Managing a global organization has placed, and may continue to place, significant demands on our management and infrastructure. If we fail to manage our operations effectively, we may be unable to execute our business plan, maintain high levels of service or address competitive challenges adequately.

Managing a global and geographically dispersed workforce and operation has required substantial management effort, the allocation of valuable management resources and significant additional investment in our infrastructure. We will be required to continue to improve our operational, financial and management controls and operations reporting procedures, and we may not be able to do so effectively. Moreover, we may from time to time decide to undertake cost savings initiatives, such as additional restructurings, disposing of, and/or otherwise discontinuing certain products, in an effort to focus our resources on key strategic initiatives and streamline our business. Further, supporting our customers and operations, and driving future growth, we must continually improve and maintain our technology, systems and network infrastructure. As such, we may be unable to manage our expenses effectively in the future, which may negatively impact our gross margins or operating expenses in any particular quarter. If we fail to manage our anticipated growth or change in a manner that does not preserve the key aspects of our corporate culture, the quality of our solutions may suffer, which could negatively affect our brand and reputation and harm our ability to retain and attract customers.

Domestic and foreign government regulation and enforcement of data practices and data tracking technologies is expansive, not clearly defined and rapidly evolving. Such regulation could directly restrict portions of our business or indirectly affect our business by constraining our customers' use of our platform or limiting the growth of our markets.

Federal, state, municipal and/or foreign governments and agencies have adopted and could in the future adopt, modify, apply or enforce laws, policies, and regulations covering user privacy, data security, technologies such as cookies that are used to collect, store and/or process data, the taxation of products and services, unfair and deceptive practices, and/or the collection, use, processing, transfer, storage and/or disclosure of data associated with a unique individual. The categories of data regulated under these laws vary widely and are often ill-defined and subject to new applications or interpretation by regulators. Our subscription services enable our customers to display digital advertisements to targeted population segments, as well as collect, manage and store data regarding the measurement and valuation of their digital advertising and marketing campaigns, which may include data that is directly or indirectly obtained or derived through the activities of online or mobile visitors. The uncertainty and inconsistency among these laws, coupled with a lack of guidance as to how these laws will be applied to current and emerging Internet and mobile analytics technologies, creates a risk that regulators, lawmakers or other third parties, such as potential plaintiffs, may assert claims, pursue investigations or audits, or engage in civil or criminal enforcement. These actions could limit the market for our subscription services or impose burdensome requirements on our services and/or customers' use of our services, thereby rendering our business unprofitable.

Some features of our subscription services use cookies, which trigger the data protection requirements of certain foreign jurisdictions, such as the EU General Data Protection Regulation, or the GDPR, and the EU ePrivacy Directive. In addition, our services collect data about visitors' interactions with our advertiser clients that may be subject to regulation under current or future laws or regulations. If our privacy or data security measures fail to comply with these current or future laws and regulations in any of the jurisdictions in which we collect information, we may be subject to litigation, regulatory investigations, civil or criminal enforcement, audits or other liabilities in such jurisdictions, or our advertisers may terminate their relationships with us. In addition, foreign court judgments or regulatory actions could impact our ability to transfer, process and/or receive transnational data that is critical to our operations, including data relating to users, clients, or partners outside the United States. Such judgments or actions could affect the manner in which we provide our services or adversely affect our financial results if foreign clients and partners are not able to lawfully transfer data to us.

This area of the law is currently under intense government scrutiny and many governments, including the U.S. government, are considering a variety of proposed regulations that would restrict or impact the conditions under which data obtained from or through the activities of visitors could be collected, processed or stored. In addition, regulators such as the Federal Trade Commission and the California Attorney General are continually proposing new regulations and interpreting and applying existing regulations in new ways. For example, in June 2018, California passed the California Consumer Privacy Act, or the CCPA, which provides new data privacy rights for consumers and new disclosure and operational requirements for companies, effective January 2020. Fines for non-compliance may be up to \$7,500 per violation. The burdens imposed by the GDPR and CCPA, and changes to existing laws or new laws regulating the solicitation, collection or processing of personal and consumer information, truth-in-advertising and consumer protection could affect our customers' utilization of digital advertising and marketing, potentially reducing demand for our subscription services, or impose restrictions that make it more difficult or expensive for us to provide our services.

If legislation dampens the growth in web and mobile usage or access to the Internet, our results of operations could be harmed.

Legislation enacted in the future could dampen the growth in web and mobile usage and decrease its acceptance as a medium of communications and commerce or result in increased adoption of new modes of communication and commerce that may not be serviced by our products. In addition, government agencies or private organizations may begin to impose taxes, fees or other charges for accessing the Internet, which could result in slower growth or a decrease in eCommerce, use of social media and/or use of mobile devices. Any of these outcomes could cause demand for our platform to decrease, our costs to increase, and our results of operations and financial condition to be harmed.

If our customers fail to abide by applicable privacy laws or to provide adequate notice and/or obtain consent from end users, we could be subject to litigation or enforcement action or reduced demand for our services. Industry self-regulatory standards may be implemented in the future that could affect demand for our platform and our ability to access data we use to provide our platform.

Our customers utilize our services to support and measure their direct interactions with visitors, and although we provide notice and choice mechanisms on our websites for our subscription services, we also must rely on our customers to implement and administer notice and choice mechanisms required under applicable laws. If we or our customers fail to abide by these laws, it could result in litigation or regulatory or enforcement action against our customers or against us directly.

In addition, self-regulatory organizations (such as the Digital Advertising Network or Network Advertising Initiative) to which our customers, partners and suppliers may belong, may impose opt-in or opt-out requirements on our customers, which may in the future require our customers to provide various mechanisms for users to opt-in or opt-out of the collection of any data, including anonymous data, with respect to such users' web or mobile activities. The online and/or mobile industries may adopt technical or industry standards, or federal, state, local or foreign laws may be enacted that allow users to opt-in or opt-out of data that is necessary to our business. In particular, some government regulators and standard-setting organizations have suggested a "Do Not Track" standard that allows users to express a preference, independent of cookie settings in their browser, not to have website browsing recorded. All the major Internet browsers have implemented some version of a "Do Not Track" setting. Furthermore, publishers may implement alternative tracking technologies that make it more difficult to access the data necessary to our business or make it more difficult for us to compete with the publisher's own advertising management solutions. If any of these events were to occur in the future, it could have a material effect on our ability to provide services and for our customers to collect the data that is necessary to use our services.

Our revenues may be adversely affected if we are required to charge sales taxes in additional jurisdictions or other taxes for our solutions.

We collect or have imposed upon us sales or other taxes related to the solutions we sell in certain states and other jurisdictions. Additional states, countries or other jurisdictions may seek to impose sales or other tax collection obligations on us in the future, or states or jurisdictions in which we already pay tax may increase the amount of taxes we are required to pay. A successful assertion by any state, country or other jurisdiction in which we do business that we should be collecting sales or other taxes on the sale of our products and services could, among other things, create significant administrative burdens for us, result in substantial tax liabilities for past sales, discourage clients from purchasing solutions from us or otherwise substantially harm our business and results of operations.

We may experience quarterly fluctuations in our operating results due to a number of factors which make our future results difficult to predict and could cause our operating results to fall below expectations or our guidance.

Our quarterly operating results may fluctuate due to a variety of factors, many of which are outside of our control. As a result, comparing our operating results on a period-to-period basis may not be meaningful. You should not rely on our past results as indicative of our future performance. If our revenues or operating results fall below the expectations of investors or securities analysts, or below any guidance we may provide to the market, the price of our common stock could decline substantially.

In addition to other risk factors listed in this section, factors that may affect our quarterly operating results include the following:

the level of advertising spend managed through our platform for a particular quarter;

fluctuations in the contractual rates of our strategic agreements with publishers;

customer renewal rates, and the pricing and usage of our platform in any renewal term;

demand for our platform and the size and timing of our sales;

customers delaying purchasing decisions in anticipation of new releases by us or of new products by our competitors;

delays in projects to upgrade our own software platform infrastructure and any resulting delays in releasing new features;

network outages, platform downtime, software bugs or security breaches and any associated credits, warranty claims or other expenses;

changes in the competitive dynamics of our industry, including consolidation among competitors or customers;

market acceptance of our current and future solutions;

changes in spending on digital advertising or information technology and software by our current and/or prospective customers;

budgeting cycles of our customers;

our potentially lengthy sales cycle;

our ability to control costs, including our operating expenses;

the amount and timing of infrastructure costs and operating expenses related to the maintenance and expansion of our business, operations and infrastructure;

hiring or separation of employees;

foreign currency exchange rate fluctuations; and

general economic and political conditions in our domestic and international markets.

Based upon all of the factors described above, we have a limited ability to forecast our future revenues, costs and expenses, and as a result, our operating results may from time to time fall below our estimates or the expectations of public market analysts and investors.

Future acquisitions, strategic investments, partnerships or alliances could be difficult to integrate, divert the attention of key management personnel, disrupt our business, dilute shareholder value and adversely affect our results of operations and financial condition.

We acquired businesses in the past and may seek to acquire additional businesses, products or technologies in the future. However, we have limited experience in acquiring and integrating businesses, products and technologies. If we identify an appropriate acquisition candidate, we may not be successful in negotiating the terms and/or financing of the acquisition, and our due diligence may fail to identify all of the problems, liabilities or other shortcomings or challenges of an acquired business, product or technology, including issues related to intellectual property, product quality or architecture, regulatory compliance practices, revenue recognition or other accounting practices or employee or client issues.

Any acquisition or investment may require us to use significant amounts of cash, issue potentially dilutive equity securities or incur debt. In addition, acquisitions involve numerous risks, any of which could harm our business, including:

regulatory and commercial risks relating to advertising technologies we may acquire;

difficulties in integrating the operations, technologies, services and personnel of acquired businesses, especially if those businesses operate outside of our core competency or in foreign countries;

cultural challenges associated with integrating employees from the acquired company into our organization;

reputation and perception risks associated with the acquired product or technology by the general public;

ineffectiveness or incompatibility of acquired technologies or services;

potential loss of key employees of acquired businesses;

inability to maintain the key business relationships and the reputations of acquired businesses;

diversion of management's attention from other business concerns;

litigation for activities of the acquired company, including claims from terminated employees, clients, former shareholders or other third parties;

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failure to identify all of the problems, liabilities or other shortcomings or challenges of an acquired company, technology, or solution, including issues related to intellectual property, solution quality or architecture, regulatory compliance practices, revenue recognition or other accounting practices or employee or client issues;

in the case of foreign acquisitions, the need to integrate operations across different cultures and languages and to address the particular economic, currency, political and regulatory risks associated with specific countries; costs necessary to establish and maintain effective internal controls for acquired businesses;

failure to successfully further develop the acquired technology in order to recoup our investment; and

increased fixed costs.

If we are unable to successfully integrate any future business, product or technology we acquire, our business and results of operations may suffer.

In addition, a significant portion of the purchase price of companies we acquire may be allocated to acquired goodwill and other intangible assets, which must be assessed for impairment at least annually. If our acquisitions do not yield expected returns, we may be required to take charges to our operating results based on this impairment assessment process, which could adversely affect our results of operations.

Acquisitions could also result in dilutive issuances of equity securities or the incurrence of debt, which could adversely affect our operating results. For instance, in connection with our prior acquisitions, we issued shares of our common stock.

We identified a material weakness in our internal control over financial reporting in the year ended December 31, 2016 that has since been remediated. If we experience additional material weaknesses or deficiencies in the future or otherwise fail to maintain an effective system of internal controls, we may not be able to accurately or timely report our financial condition or results of operations, which may adversely affect investor confidence in us and, as a result, the value of our common stock.

Our management determined that there was a material weakness in our internal control over financial reporting for the year ended December 31, 2016 because we did not maintain effective controls over the preparation and review of the annual income tax provision. A material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting, such that there is a reasonable possibility that a material misstatement of the registrant's annual or interim financial statements will not be prevented or detected in a timely basis. As previously disclosed in our Annual Report on Form 10-K for the fiscal year ended December 31, 2016, this material weakness arose during the review of the annual income tax provision in connection with the preparation of our consolidated financial statements for the year ended December 31, 2016, where an error was identified that related to the accounting for

changes in uncertain tax positions at one of our subsidiaries in France. Once this error was identified, an accounting adjustment was recorded to our liability for uncertain tax positions and the provision for income taxes, as well as the related income tax disclosures, on the consolidated financial statements for the year ended December 31, 2016.

Although the error was identified prior to the completion of our 2016 consolidated financial statements, management determined that a design deficiency existed in a control intended to properly account for and present the accounting for income taxes in accordance with GAAP.

As further described in Part I, Item 4 “Controls and Procedures,” of our Annual Report on form 10-K, as amended, for the year ended December 31, 2017, filed with the Securities and Exchange Commission, or the SEC, on March 5, 2018, we developed a detailed plan to address the material weakness, and were successful in remediating it in the year ended December 31, 2017. However, there can be no assurance that we will not identify additional control deficiencies or material weaknesses in the future.

In addition, if we identify new material weaknesses in the future, if we are unable to comply with the requirements of Section 404(b) of the Sarbanes-Oxley Act, or Section 404, in a timely manner, if we are unable to assert that our internal control over financial reporting is effective or if our independent registered public accounting firm is unable to express an opinion as to the effectiveness of our internal control over financial reporting, investors may lose confidence in the accuracy and completeness of our financial reports and the market price of our common stock could be negatively affected, and we could become subject to investigations by the stock exchange on which our securities are listed, the SEC, or other regulatory authorities, which could require additional financial and management resources.

We are a smaller reporting company and we cannot be certain if the reduced disclosure requirements applicable to smaller reporting companies will make our common stock less attractive to investors.

While we have ceased being an emerging growth company as of December 31, 2018, many of the exemptions available for emerging growth companies are also available to smaller reporting companies like us that have less than \$250 million of worldwide common equity held by non-affiliates. The disclosures we will be required to provide in our SEC filings will increase, but will still be less than it would be if we were not considered a smaller reporting company. Specifically, similar to emerging growth companies, smaller reporting companies are able to provide simplified executive compensation disclosures in their filings; are exempt from the provisions of Section 404 requiring that independent registered public accounting firms provide an attestation report on the effectiveness of internal control over financial reporting; and have certain other decreased disclosure obligations in their SEC filings, including, among other things, only being required to provide two years of audited financial statements in annual reports. Decreased disclosures in our SEC filings due to our status as a smaller reporting company may make it harder for investors to analyze our results of operations and financial prospects. We cannot predict if investors will find our common stock less attractive because we will rely on the exemptions available to smaller reporting companies. If some investors find our common stock less attractive as a result, there may be a less active trading market for our common stock and our stock price may be more volatile.

We may not be able to utilize a significant portion of our net operating loss or research tax credit carryforwards, which could adversely affect our profitability.

As of December 31, 2018, we had federal and state net operating loss carryforwards due to prior period losses, which if not utilized will begin to expire in 2026 and 2022 for federal and state purposes, respectively. We also have federal research tax credit carryforwards, which if not utilized will begin to expire in 2026. These net operating loss and research tax credit carryforwards could expire unused and be unavailable to offset future income tax liabilities, which could adversely affect our profitability.

In addition, under Section 382 of the Internal Revenue Code of 1986, as amended, or the Code, our ability to utilize net operating loss carryforwards or other tax attributes, such as research tax credits, in any taxable year may be limited if we experience an “ownership change.” A Section 382 “ownership change” generally occurs if one or more stockholders or groups of stockholders who own at least 5% of our stock increase their ownership by more than 50 percentage points over their lowest ownership percentage within a rolling three-year period. Similar rules may apply under state tax laws.

Future issuances of our stock could cause an “ownership change.” It is possible that any future ownership change could have a material effect on the use of our net operating loss carryforwards or other tax attributes, which could adversely affect our profitability.

Our reported financial results may be adversely affected by changes in accounting principles generally accepted in the United States.

Generally accepted accounting principles in the United States are subject to interpretation by the Financial Accounting Standards Board, the SEC, and various bodies formed to promulgate and interpret appropriate accounting principles. A change in these principles or interpretations could have a significant effect on our reported financial results, and could affect the reporting of transactions completed before the announcement of a change.

We may be required to record a significant charge to earnings if our goodwill or amortizable intangible assets become further impaired.

We are required under GAAP to review our amortizable intangible assets for impairment when events or changes in circumstances indicate the carrying value may not be recoverable. Goodwill is required to be tested for impairment at least annually. Conditions that would necessitate an impairment assessment include a significant decline in the observable market value of an asset, a significant change in the extent or manner in which an asset is used, or any other significant adverse change that would indicate that the carrying amount of an asset or group of assets may not be recoverable. The events and circumstances we consider include the business climate, legal factors, operating performance indicators and competition. In the future we may be required to record a significant charge to earnings in our consolidated financial statements for the period in which any impairment of our goodwill or amortizable intangible assets is determined. This could adversely impact our results of operations and harm our business.

During the year ended December 31, 2018, the market capitalization of our publicly traded common stock sustained a decline to the extent that it fell below the book value of our net assets, triggering the need to perform a goodwill impairment test. As a result of this test, we identified and recorded goodwill impairment expense of \$14.7 million for the year ended December 31, 2018. Refer to Note 2 and Note 6 of the accompanying consolidated financial statements for further information on this goodwill impairment expense. As additional facts, circumstances or assumptions change in the future, we may be required to record additional impairment charges to reduce the carrying value of our goodwill, intangible assets and other long-term assets.

Risks Related to the Ownership of Our Common Stock