BOARD OF DIRECTORS
Friday, October 27th, 2017
8:30 a.m. – 11:00 a.m.

Thomson Reuters
610 Opperman Drive, Eagan, MN 55123

AGENDA

1. **Call to Order (Lisa Schlosser)**   8:30

2. **Introductions (Lisa Schlosser)**   8:30 – 8:35

3. **Approval of Meeting Minutes (Lisa Schlosser)**   8:35 – 8:40
   - July 21st, 2017

4. **Financial Update (Ed Foppe)**   8:40 – 8:45

5. **President's Report (Margaret Anderson Kelliher)**   8:45 – 8:50
   - Tekne Awards Update
     *enclosures – Presidents Report, Staff Report

6. **Spring Conference 2018 Committee Report**   8:50– 9:00
   (Jacquelyn Crowhurst, Jake Krings)

2017 ACE Presentations   9:00 – 10:55
   1. Expo 2023: Global Health & Wellness
   2. Accelerating the Vikings
   3. Expo 2023: Sharing the Experience
   4. DMC
   5. Expo 2023: Emerging Technology
   6. Vikings & STEM Ed

7. **Other Business (All)**   10:55 – 11:00

8. **Adjourn**   11:00

Next MHTA Board Meeting:
December 8th, 2017 8:30 – 11:00 a.m.
Location: Unisys, 3199 Pilot Knob Road, St. Paul, MN 55121

Upcoming Events Listing

Oct
  27   MHTA BOD (ACE Presentations)

Nov
  10   MHTA Exec Committee
  15   Tekne Awards

Dec
      6   CIO Panel
      8   MHTA Board of Directors
    13   FOUNDATION Board of Directors
    15   MHTA Exec Committee

SAVE THE DATE 2018

February 21 - Tech.2018

April 10 – Spring Conference

September 13 – Bids & Bytes

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mhta
Driving Innovation & Technology

Board of Directors Minutes
Vice Chair Scott Singer Presiding
8:30 am to 10:30 am
Friday, July 21st, 2017

PwC
45 South Seventh Street, Suite 3400, Minneapolis, MN 55402

Present: Margaret Anderson Kelliher, Doug Carnival, Jacquelyn Crowhurst, Amy Fisher, Ed Foppe, Win Giles, ,David Harkness, Todd Hauschildt, Patrick Joyce, Harlan Kragt, Jake Krings, Michael Lacey, Sandy Lee, Chuck Lefebve, Mac Lewis, Paul Mattia, Cy Morton, Samuel Prabhakar, Chris Rence, Pat Ryan, Scott Singer, Mike Sivo, Dee Thibodeau, Ken Voss **Absent:** Kevin Boeckenstedt, Jill Farrington, Win Giles, Milla Hautman, Jay Heath, Karen Hudson, Rick Krueger, Joy Lindsay, Tyler Middleton, David Minkkinen, Lisa Schlosser, Kirsten Stone **Staff:** Claire Ayling, Tim Barrett, Patty Carruth, Ted Modrich, Lonni Ranallo, Andrew Wittenborg

1. **Call to Order**
   Vice Chair Scott Singer called the meeting to order.

2. **Introductions**

3. **Approval of May 19th, 2017 Meeting Minutes**
   Michael Lacey moved to approve the May 19th meeting minutes, Dee Thibodeau seconded the motion, the motion carried and the minutes were approved.

4. **Governance**
   Michael Lacey presented a motion to nominate Bob Hirsch of Deloitte, and Sridhar Koneru of Xcel Energy to replace David Harkness to the MHTA Board of Directors. Harlan Kragt seconded the motion, the motion carried and Bob Hirsch and Sridhar Koneru are elected to the MHTA Board of Directors.

5. **Financial Update**
   Ed Foppe gave the financial update. The 2016 Audit was completed in June by CliftonLarsonAllen (CLA). MHTA has received an unqualified opinion for 2016. CLA performed a number of tests and this year tested membership revenue to verify that revenue is being accurately portrayed in the accrual process. CLA also looked at some data analytics. The Executive Committee has finalized the audit. Ed reviewed the Form 990 and explained that this is a public document and encouraged the Board of Directors to review the mission and the form itself.

   Ed Foppe made a motion to approve and file Form 990, Michael Lacy seconded the motion, the motion carried and the Form 990 is approved.

   June financials are complete, with membership running behind plan by $49K. All events are running to plan, although Spring income was behind, expenses also trailed, creating a favorable net income on that event. SciTech and SBIR, STEM programs all running close to

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plan. Net income at $165K vs budgeted net of $227K. Scott Singer asked that a strategy be created to improve membership revenue. Discussion took place around membership and the membership procedures that are currently under review.

6. **Events Update**
   Patty Carruth gave an events update. Event Committee's for Tekne, Tech. , and Spring Conference have begun meeting. The Minnesota Venture Conference sponsorship is running behind plan, and we have 13 of the 18 company presentations confirmed. We need more registration from the investor community. Tekne applications and nominations have begun, with sponsorship sales going well. We are working on more speakers for the CIO Panel.

7. **Membership**
   Andrew Wittenborg gave a presentation of the membership engage campaign.

8. **Bids & Bytes Event**
   Tim Barrett gave an overview of the Bids & Bytes event to support the MHTA Foundation that will happen on September 12th at Aria, downtown Minneapolis. Tim walked through sponsorship and bidding opportunities.

9. **Presidents Report**
   Margaret Anderson Kelliher gave an update on general MHTA activity and an overview of the TECNA conference.

10. **Presentation: Minnesota Compass| Wilder Foundation**
    Allison Liuzzi gave a presentation of the Minnesota Compass project focusing in on the STEM aspect of the research.

11. **Other Business**

12. **Adjourn**
    Dee Thibodeau made a motion to adjourn, Ed Foppe seconded the motion, the motion carried and the meeting was adjourned.

MHTA P&L vs Budget September 2017

	Jan - Sep 17	YTD Budget	Projected YE	Annual Budget	$ Over Budget
Total Membership	569,169	604,297	583,593	618,721	(35,128)
Total Promotion / Events	192,131	180,104	300,632	370,105	(69,473)
Total Programs- STEM, Scitech, SBIR	305,777	320,784	397,805	412,813	(15,008)
Sub Total	1,067,077	1,105,185	1,282,030	1,401,639	(119,609)
Operate MHTA & Public Policy	1,029,057	1,055,790	1,365,659	1,392,393	(26,734)
Net Income	38,020	49,395	(83,630)	9,246	(92,876)

	Jan - Sep 17	YTD Budget	Projected YE	Annual Budget	$ Over Budget
Income					
Total Membership	569,169	604,297	583,593	618,721	(35,128)
Total Promotion / Events	349,000	363,125	662,025	757,650	(95,626)
Total STEM Programs	907,056	969,800	1,156,446	1,155,500	946
Total Other Income*Sales & Marketing	13,754	15,572	13,782	15,600	(1,818)
Total Income	1,838,978	1,952,794	2,415,845	2,547,471	(131,626)
Expense					
5090 · Strategic Planning	20,296	19,000	20,296	19,000	1,296
Total Administration	143,204	148,899	188,358	194,053	(5,695)
Total 5000 · Association Staffing	815,071	828,554	1,086,457	1,099,940	(13,483)
Total 5400 · Sales & Marketing	29,740	40,410	38,330	49,000	(10,670)
Total Promotion / Event Expenses	156,869	183,021	361,393	387,545	(26,152)
Total STEM Program expense	601,279	649,016	758,641	742,687	15,954
Total Public Policy	34,500	34,500	46,000	46,000	0
Total Expense	1,800,958	1,903,399	2,499,475	2,538,225	(38,750)
Net Income	38,020	49,395	(83,630)	9,246	(92,876)

Tekne

Wednesday, Nov 15, 2017

Sponsorship Progress
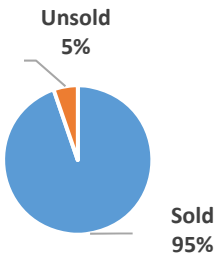
Stage	Amount
Sold	$ 90,000
Unsold	$ 5,000
Tekne Sponsorship Budget	$ 95,000

Sponsors confirmed to date

Organization	Sponsorship
Optum	Presenting
Thomson Reuters	Presenting
Comcast	Red Carpet
AT&T	Platinum
Ecolab	Platinum
Robins Kaplan	Finalist Reception
Genesis10	VIP Reception
Unisys	Silver
Computex	Silver
Medtronic	Silver
Digineer	Silver
Xcel	Silver

Tickets/Tables Progress (Excludes sponsor tables)
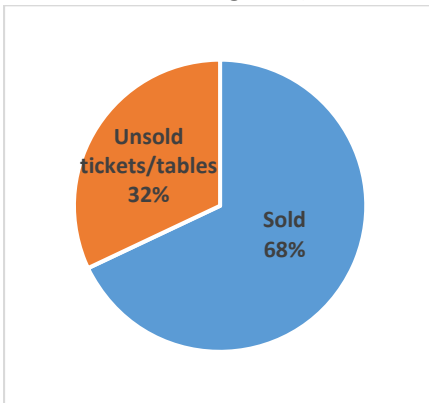
Ticket/Table Revenue	Amount
Sold	$ 67,830
Unsold tickets/tables	$ 31,945
Tekne Reg Budget	$ 99,775

Gartner Topics

MHTA Spring Conference Discussion

Gartner Hype Cycle – July 2017

Gartner **Hype Cycle** for Emerging Technologies, 2017
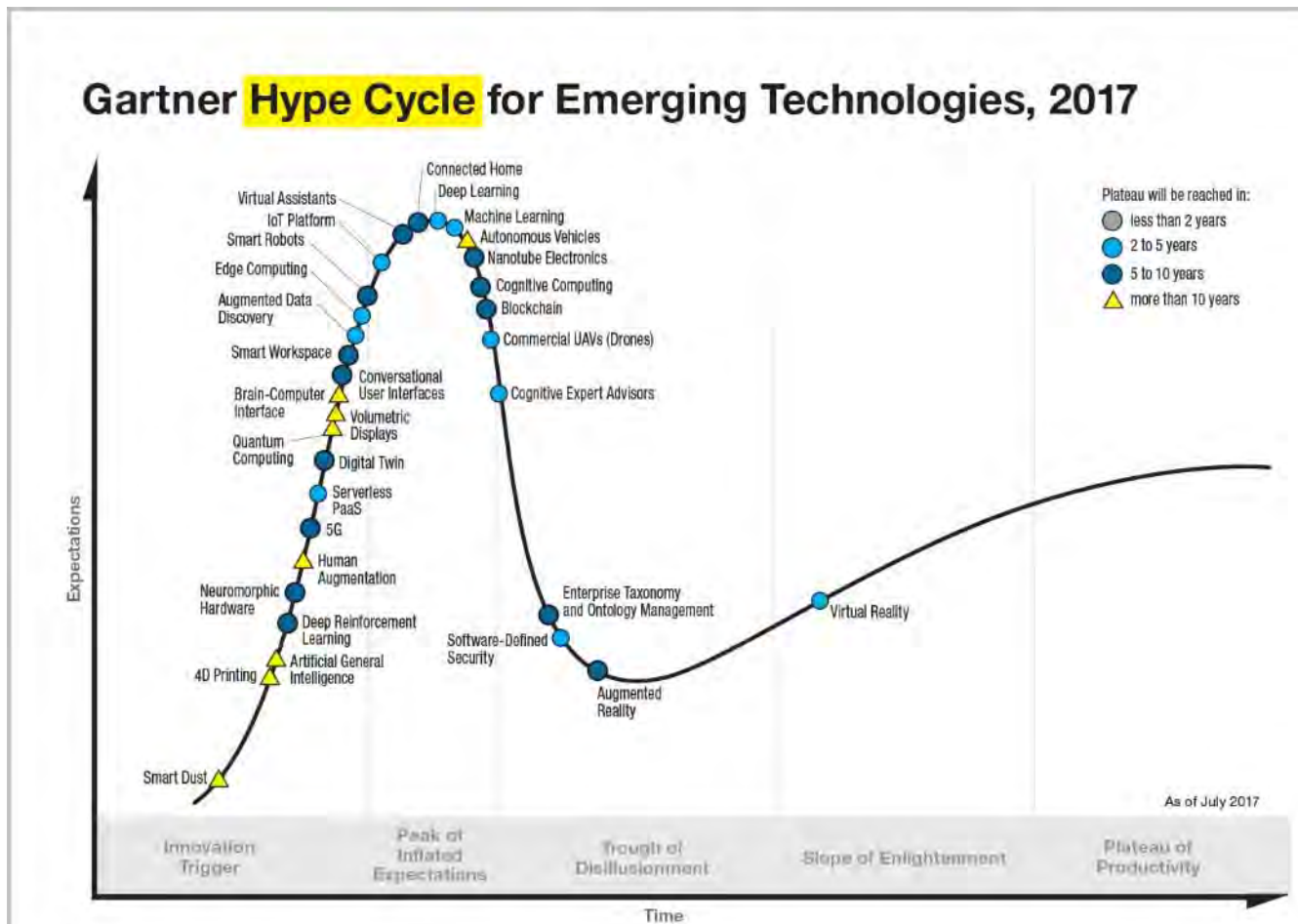
Gartner 2018 Topics

- 1. AI Foundation
- 2. Intelligent Apps & Analytics
- 3. Intelligent Things
- 4. Digital Twins
- 5. Cloud to the Edge
- 6. Conversational Platforms
- 7. Immersive Experience
- 8. Blockchain
- 9. Event-Driven Model
- 10. Continuous Adaptive Risk and Trust

Gartner Top 10 Strategic Technology Trends for 2018
Intelligent, Digital, Mesh

Intelligent

Trend No. 1: AI Foundation   **2-5 years**

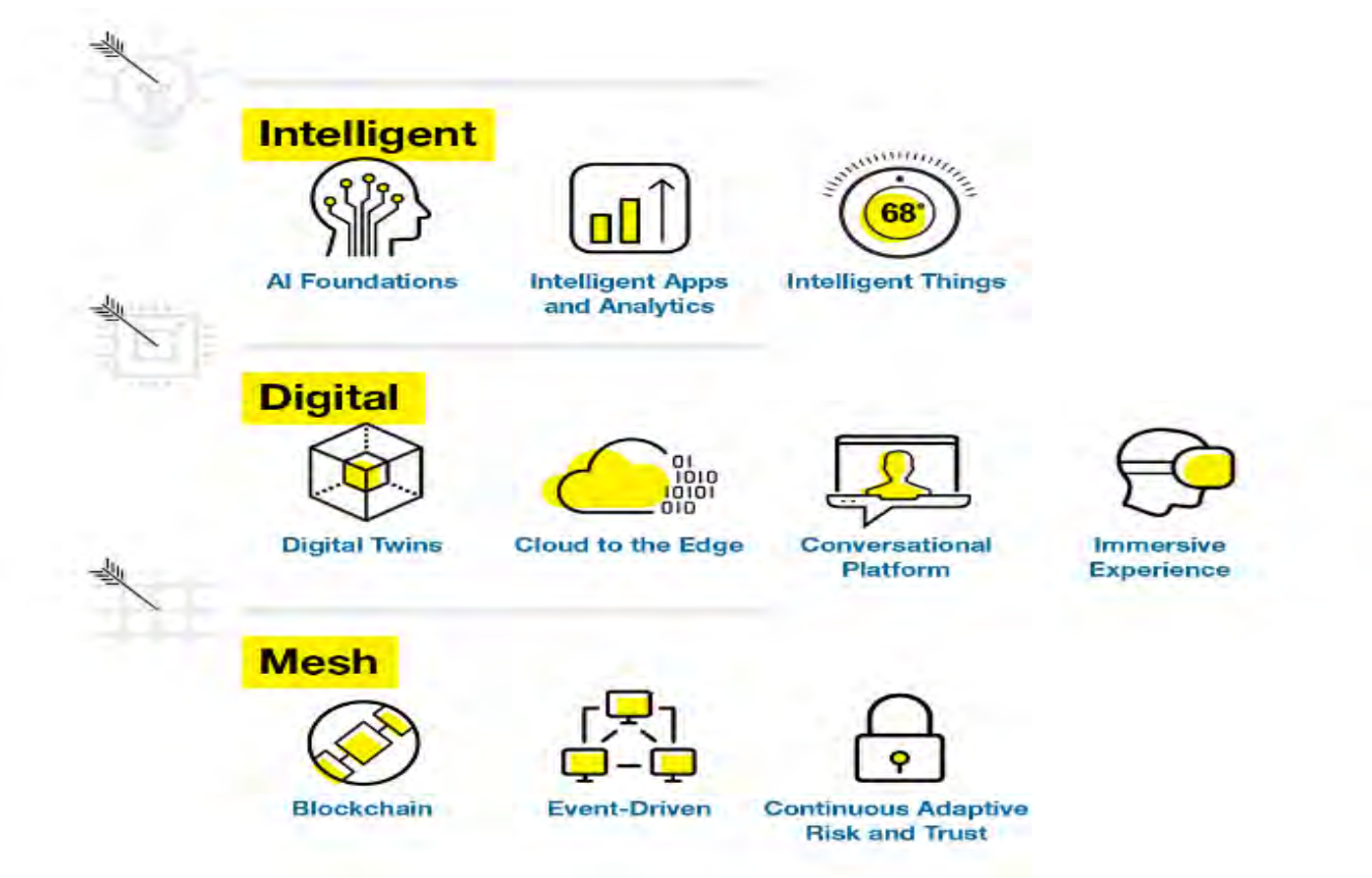The ability to use AI to enhance decision making, reinvent business models and ecosystems, and remake the customer experience will drive the payoff for digital initiatives through 2025. Given the steady increase in inquiry calls, it's clear that interest is growing. A recent Gartner survey showed that 59% of organizations are still gathering information to build their **AI strategies**, while the remainder have already made progress in piloting or adopting AI solutions.

Although using AI correctly will result in a big digital business payoff, the promise (and pitfalls) of general AI where systems magically perform any intellectual task that a human can do and dynamically learn much as humans do is speculative at best. Narrow AI, consisting of highly scoped machine-learning solutions that target a specific task (such as understanding language or driving a vehicle in a controlled environment) with algorithms chosen that are optimized for that task, is where the action is today. "Enterprises should focus on business results enabled by applications that exploit narrow AI technologies and leave general AI to the researchers and science fiction writers," says Cearley.

Trend No. 2: Intelligent Apps and Analytics   **2-5 years**

Over the next few years every app, application and service will incorporate AI at some level. AI will run unobtrusively in the background of many familiar application categories while giving rise to entirely new ones. AI has become the next major battleground in a wide range of software and service markets, including aspects of ERP. "Challenge your packaged software and service providers to outline how they'll be using AI to add business value in new versions in the form of advanced analytics, intelligent processes and advanced user experiences," notes Cearley.

Intelligent apps also create a new intelligent intermediary layer between people and systems and have the potential to transform the nature of work and the structure of the workplace, as seen in virtual customer assistants and enterprise advisors and assistants.

"Explore intelligent apps as a way of augmenting human activity, and not simply as a way of replacing people," says Cearley. Augmented analytics is a particularly strategic growing area that uses machine learning for automating data preparation, insight discovery and insight sharing for a broad range of business users, operational workers and citizen data scientists.

Trend No. 3: Intelligent Things   **5-10 years**

Intelligent things use AI and machine learning to interact in a more intelligent way with people and surroundings. Some intelligent things wouldn't exist without AI, but others are existing things (i.e., a camera) that AI makes intelligent (i.e., a smart camera.) These things operate semi-autonomously or autonomously in an unsupervised environment for a set amount of time to complete a particular task. Examples include a self-directing vacuum or autonomous farming vehicle. As the technology develops, AI and machine learning will increasingly appear in a variety of objects ranging from smart healthcare equipment to autonomous harvesting robots for farms.

As intelligent things proliferate, expect a shift from stand-alone intelligent things to a swarm of collaborative intelligent things. In this model, multiple devices will work together, either independently or with human input. The leading edge of this area is being used by the military, which is studying the use of drone swarms to attack or defend military targets. It's evident in the consumer world in the opening example showcased at CES, the consumer electronics event.

Digital

Trend No. 4: Digital Twins   **5-10 years**

A digital twin is a digital representation of a real-world entity or system. In the context of IoT, digital twins are linked to real-world objects and offer information on the state of the counterparts, respond to changes, improve operations and add value. With an estimated 21 billion connected sensors and endpoints by 2020, digital twins will exist for billions of things in the near future. Potentially billions of dollars of savings in maintenance repair and operation (MRO) and optimized IoT asset performance are on the table, says Cearley.

In the short term, digital twins offer help with asset management, but will eventually offer value in operational efficiency and insights into how products are used and how they can be improved.

Outside of the IoT, there is a growing potential to link digital twins to entities that are not simply "things." "Over time, digital representations of virtually every aspect of our world will be connected dynamically with their real-world counterparts and with one another and infused with AI-based capabilities to enable advanced simulation, operation and analysis," says Cearley. "City planners, digital marketers, healthcare professionals and industrial planners will all benefit from this long-term shift to the integrated digital twin world." For example, future models of humans could offer biometric and medical data, and digital twins for entire cities will allow for advanced simulations.

Trend No. 5: Cloud to the Edge   **5-10 years**

Edge computing describes a computing topology in which information processing and content collection and delivery are placed closer to the sources of this information. Connectivity and latency challenges, bandwidth constraints and greater functionality embedded at the edge favors distributed models. Enterprises should begin using edge design patterns in their infrastructure architectures — particularly for those with significant IoT elements. A good starting point could be using colocation and edge-specific networking capabilities.

While it's common to assume that cloud and edge computing are competing approaches, it's a fundamental misunderstanding of the concepts. Edge computing speaks to a computing topology that places content, computing and processing closer to the user/things or "edge" of the networking. Cloud is a system where technology services are delivered using internet technologies, but it does not dictate centralized or decentralized service delivering services. When implemented together, cloud is used to create the service-oriented model and edge computing offers a delivery style that allows for executions of disconnected aspects of cloud service.

Trend No. 6: Conversational Platforms   **5-10 years**

Conversational platforms will drive a paradigm shift in which the burden of translating intent shifts from user to computer. These systems are capable of simple answers (How's the weather?) or more complicated interactions (book a reservation at the Italian restaurant on Parker Ave.) These platforms will continue to evolve to even more complex actions, such as collecting oral testimony from crime witnesses and acting on that information by creating a sketch of the suspect's face based on the testimony. The challenge that conversational platforms face is that users must communicate in a very structured way, and this is often a frustrating experience. A primary differentiator among conversational platforms will be the robustness of their conversational models and the API and event models used to access, invoke and orchestrate third-party services to deliver complex outcomes.

Trend No. 7: Immersive Experience   **2-5 years**

Augmented reality (AR), virtual reality (VR) and mixed reality are changing the way that people perceive and interact with the digital world. Combined with conversational platforms, a fundamental shift in the user experience to an invisible and immersive experience will emerge. Application vendors, system software vendors and development platform vendors will all compete to deliver this model.

Over the next five years the focus will be on mixed reality, which is emerging as the immersive experience of choice, where the user interacts with digital and real-world objects while maintaining a presence in the physical world. Mixed reality exists along a spectrum and includes head-mounted displays (HMD) for AR or VR, as well as smartphone- and tablet-based AR. Given the ubiquity of mobile devices, Apple's release of ARkit and iPhone X, Google's Tango and ARCore, and the availability of cross-platform AR software development kits such as Wikitude, we expect the battles for smartphone-based AR and MR to heat up in 2018.

Mesh

Trend No. 8: Blockchain   **5-10 years**
Blockchain is a shared, distributed, decentralized and tokenized ledger that removes business friction by being independent of individual applications or participants. It allows untrusted parties to exchange commercial transactions. The technology holds the promise to change industries, and although the conversation often surrounds financial opportunities, blockchain has many potential applications in government, healthcare, content distribution, supply chain and more. However, many blockchain technologies are immature and unproven, and are largely unregulated.
A practical approach to blockchain demands a clear understanding of the business opportunity, the capabilities and limitations of blockchain, a trust architecture and the necessary implementation skills. Before embarking on a distributed-ledger project, ensure your team has the cryptographic skills to understand what is and isn't possible. Identify the integration points with existing infrastructures, and monitor the platform evolution and maturation. Use extreme caution when interacting with vendors, and ensure you are clearly identifying how the term "blockchain" is being used.

Trend No. 9: Event-Driven
Digital businesses rely on the ability to sense and be ready to exploit new digital business moments. Business events reflect the discovery of notable states or state changes, such as completion of a purchase order. Some business events or combinations of events constitute business moments — a detected situation that calls for some specific business action. The most consequential business moments are those that have implications for multiple parties, such as separate applications, lines of business or partners.
With the advent of AI, the IoT, and other technologies, business events can be detected more quickly and analyzed in greater detail. Enterprises should embrace "event thinking" as part of a digital business strategy. By 2020, event-sourced, real-time situational awareness will be a required characteristic for 80% of digital business solutions, and 80% of new business ecosystems will require support for event processing.

Trend No. 10: Continuous Adaptive Risk and Trust
Digital business creates a complex, evolving security environment. The use of increasingly sophisticated tools increases the threat potential. Continuous adaptive risk and trust assessment (CARTA) allows for real-time, risk and trust-based decision making with adaptive responses to security-enable digital business. Traditional security techniques using ownership and control rather than trust will not work in the digital world. Infrastructure and perimeter protection won't ensure accurate detection and can't protect against behind-the-perimeter insider attacks. This requires embracing people-centric security and empowering developers to take responsibility for security measures. Integrating security into your DevOps efforts to deliver a continuous "DevSecOps" process and exploring deception technologies (e.g., adaptive honeypots) to catch bad guys that have penetrated your network are two of the new techniques that should be explored to make CARTA a reality.

2018 Spring Conference Planning Survey
Based on Top 10 Gartner Technology Trends for 2018

	Technologies	Importance to YOUR company (rank EACH on a scale of 1-5; 1= most important, 5=least)	In priority order, choose the five (5) most relevant for the Spring Conference audience	Descriptions	Sub Topic	Examples	Speaker recommendations
1	AI Foundation			The ability to use AI to enhance decision making, reinvent business models and ecosystems, and remake the customer experience.	AI	Elements of AI woven into corporate strategies.	
2	Intelligent Apps & Analytics			Within AI, machine learning includes algorithms that are developed to tell a computer how to respond to something by example.	Deep Learning	IBM's Watson	
3	Intelligent Things			Everyday objects that incorporate autonomous technology. In other words, intelligent things can respond to real world conditions automatically.	IOT	Autonoums vehicles, smart home. Swarm technology.	
4	Digital Twins			Digital twin refers to a digital replica of physical assets, processes and systems that can be used for various purposes. The digital representation provides both the **elements** and the **dynamics** of how an Internet of Things device operates and lives throughout its life cycle.	IOT	Twin models to objects used for field failure prediction.	
5	Cloud to the Edge			Edge computing refers to data processing power at the edge of a network instead of holding that processing power in a cloud or a central data warehouse.	IOT	Internet facing systems - smart routers.	
6	Conversational Platforms			Platforms using conversational interfaces that can understand the natural language of human users and augment/replace traditional menu and click interfaces.	Human Interface	Alexa, Siri, Echo	
7	Immersive Experience			Noting or relating to digital technology or images that actively engage one's senses and may create an altered mental state.	Human Interface	Flight simulators; Virtual Reality; Immersive 3D training environments.	
8	Blockchain			An encrypted digital ledger in which transactions are recorded chronologically and publicly. It consists of concatenated blocks of transactions—allows competitors to share a digital ledger across a network of computers without need for a central authority.	Security	Crypto-currencies or supply chains	
9	Event-Driven Model			Event-driven programming is a programming paradigm in which the flow of the program is determined by events such as user actions (mouse clicks, key presses), sensor outputs, or messages from other programs/threads	IOT	Smart systems. Upfront decision making without human interaction.	
10	Continuous Adaptive Risk and Trust			In a CARTA sytem decisions must continuously adapt. Trust and risk must be dynamic, not static, and assessed continuously as interactions take place and additional context becomes available.	Security	Preempt Behavioral Firewall	

Survey completed by: _____
Please print your name

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MHTA President Report
October 27, 2017

TEKNE AWARDS
Thank you to board and executive committee members who served as Tekne judges last month. Finalists have been announced, and the awards ceremony is on November 15. Table sales are already underway — if you're interested in buying a table, email Patty at pcarruth@mhta.org. A big thank you to our BOD committee, who is doing great work on attendance and sponsorship!

INTERCITY LEADERSHIP VISIT
Participated in the 16th annual InterCity Leadership Visit, which traveled to Pittsburgh this year. The Minneapolis and St. Paul Chambers of Commerce host the trip, which is limited to 95 local civic leaders. A major focus of the trip was on the Pittsburgh tech community including AI and self-driving vehicles. We also heard from many civic and educational leaders, Carnegie Mellon, University of Pittsburgh who shared with us how closely the higher education community and bus community work together to focus on high growth knowledge based companies.

NEW GET-STEM WEBSITE LAUNCHED
We have finished work on an updated website for getSTEM, and we're already seeing increased connections and ambassador sign ups. Thank you to Thomson Reuters for hosting the site and being a terrific partner on this for so many years!

GOVERNOR'S BROADBAND TASK FORCE
The task force continues to meet to work on the report, set to be released early next year.

NORBERT ABAYISENGA IN ST. OLAF MAGAZINE
Norbert, our SciTechsperience Student Outreach Coordinator, was recently featured in a great article in St. Olaf's magazine. You can find it here: [insert link here].

MEDIA/SPEECHES/IMPACT
Highlights include:
- Spoke to the College Board's Government Relations retreat on MHTA, SciTechsperience, Public Policy, and STEM Education. 30 people in attendance.
- Interview by the Associated Press on Minnesota's efforts to secure Amazon's second HQ - http://www.startribune.com/minnesota-prepares-to-fight-for-amazon-s-2nd-headquarters/443065803/
- Interviewed by Star Tribune on Amazon and 'restrained' approach to bid - http://www.startribune.com/some-business-leaders-protest-restrained-approach-to-amazon-bid/444315103/
- Participated in a panel discussion hosted by Fredrikson & Byron with Twin Cities WRISE (Women of Renewable Industries and Sustainable Energy). The bipartisan panel discussed women running for office.
- Participated in a networking event for Young Women's Initiative Cabinet, hosted by the Governor's office. Approximately 25 young women in attendance, and many Cabinet members of other civic leaders participated. Promoted SciTechsperience and other MHTA STEM programming.
- Interviewed by MPR on Minnesota immigration and workforce - https://www.mprnews.org/story/2017/09/14/minnesota-immigrant-workforce

- Interviewed by GoMN on Amazon HQ2 - https://www.gomn.com/news/amazons-hq2-how-it-could-dramatically-transform-the-twin-cities-tech-scene
- Interviewed by Worth Magazine on Minneapolis-St. Paul technology and region's up-and-coming sports tech scene - http://www.worth.com/destinations-2017-minneapolis-st-paul/

MHTA STAFF REPORT
October 2017

New MEMBERSHIP {http://www.mhta.org/about/members}

Paragon IT Pros	MyFornulary LLC
Careerwave, Inc.	AcuMedical Inc.
Minnesota Cable Communications	DD Innovations
Aliqon Consulting	General Atlantic

OUTREACH & EVENTS

ACE: The ACE Leadership Program consists of 27 participants and six small groups. The final presentations to the Board will be on October 27th at Thomson Reuters.

CIO Forums: The next CIO Forum will be on November 2nd at Thrivent Financial.
The topic is SAAS: Pros & Cons!
Speakers from Thrivent Financial, Hazelden Betty Ford Foundation, and Hallmark
Sponsor is Improving – Twin Cities

The 2018 planning lunch is scheduled for December 1st.

WLiT: The next WLiT event is on Oct 24 at The Metropolitan Ballroom. 249 registrants to date.
Topic is *Influencing Across the Organization: Building Strategic Partnerships with the Business*
Event Sponsors to date: Cargill, Seagate, Intel, Evolving Solutions. Annual sponsors Keyot, Mayo, Absolute, UHG.

MINNESOTA VENTURE CONFERENCE: Takes place on Oct 25 at the Minneapolis Convention Center. 209 registrants to date.
Keynote addresses: Gene Munster, Loup Ventures and Andrew Downey, PwC
Startup Success Stories Panel includes Calabrio, Rebiotix, LeadPages and Bright Health
Breakout session panels by industry:
- Healthcare, Technology, Retail/Consumer and Food

Presenting Companies (Entrepreneurs): 18 of 18 spots are committed (including MNCup winner – MicroOptix)
Showcase Companies (1 minute pitch): 21 entrepreneurs committed
Sponsors to date: DEED, Calabrio, Greater MSP, PwC and Peak10/ViaWest

TEKNE AWARDS: Takes place on Nov 15 at the Minneapolis Convention Center.
57 Tables to date, including sponsors, judges, scholars, staff & crew
Emcee will be Paul Douglas.
12 Sponsors to date plus trade sponsors.

WORKFORCE DEVELOPMENT {www.mhta.org/educate/}; {www.mhta.org/work/}

Bid & Bytes Benefit

The Bids & Byte Benefit was held Tuesday, September 12, 2017. The event raised $38,905 dollars for the Foundation's STEM programming. A full slate of unique auction experiences offered by leading C-level Technology executives were auctioned. Three non-profit partners offered exciting social hour activities/competitions. Past & current scholarship winners, Foundation volunteers, and other stakeholders participated as well.

STEM Scholarships

The 2017 STEM Scholarship final selections were made in July. 2017 Award winners have been notified and will be invited to attend the Bids & Bytes Benefit in September and the Tekne Awards in November.

The SciTechsperience Internship Program

- The new program year began on September 1. We've already got 10 students placed (2 more than last year at this time). The 2018 budget is in the final planning stages, but we anticipate placing about 340 students this year. So, only 330 to go!
- Staff have been attending multiple student and employer recruiting events since September 1, sometimes more than one per day, including several during Twin Cities Start-Up week.
- SciTechsperience is teaming up with MN-SBIR and other agencies/programs to present Minnesota Resources for Science & Technologies Companies on November 2, 7:30 AM – 11:00 AM. $15 gets attendees a networking breakfast, reverse pitches from the resource teams to entrepreneurs, a panel of employers who have used the resources, and info tables. Registration is open on mhta.org.
- We are in the interview stage for the new Communications & Marketing Specialist position. We had a strong response to the posting and are moving forward with two great candidates. More come on this in the next few weeks.
- Work will begin soon on the 2017 Program Year Report, which will incorporate recruitment and placement stats, photos, quotes, and survey results.

MN-SBIR {www.mhta.org/mn-sbir**}**

MN-SBIR is the State's focal point to *seed, early stage, emerging and existing firms* to access federal research and development funding to support innovation, investment and commercialization of technologies.

- *Received $10,000 commitment from the University of Minnesota, Office of Technology Commercialization*
- *Submitted final reports to the Small Business Administration and the Minnesota Department of Employment and Economic Development*
- MN CUP Semi-Finalists (MN SBIR clients)
  - Sironix Renewables was named the division winner in the Energy/Clean Tech/Water category. Sironix Renewables is a seed-stage company developing environmentally friendly and safe chemicals from plants to be used for industrial consumer products.
  - Chromatic 3D Materials was named the runner-up in the General category. Chromatic 3D Materials is inventing the next generation of 3D printing materials with the durability to meet the requirements for finished manufactured goods.(SciTechsperience company)

- o <u>UR TURN</u> was named runner-up in Impact Ventures category. UR TURN's smart-advisor technology is designed to keep students in the driver's seat, charting a path for success in school and beyond.

Outreach and Education

Location   Date   Attendees

Location	Date	Attendees
St. Cloud	9/7/2017	5
Mankato	9/13/2017	Canx
Rochester	9/20/2017	2

Coaching and Mentoring:

Delivered coaching and mentoring via email and face-to-face meetings to the following demographics.

Women-Owned	14
Minority-Owned	14
Minority/Women	2
Small Business	63
U of M/Mayo Clinic	5

Proposal and Award Activity:

October 5, 2017 Proposal Submissions; Award selections by March/April 2018

USDA	SBIR	Phase I	Floating Gate Transistor Biosensors for Enhanced Food Safety (U of M Spinoff)	$100,000
USDA	SBIR	Phase I	Evaluating the Efficacy of CD3 Watercraft Cleaning Stations in Promoting Cleaning, Draining and Drying in Boaters"	$100,000
USDA	SBIR	Phase I	Novel Bioreactor Media Experiments to Enhance Microbial Denitrification	$100,000
USDA	SBIR	Phase I	Vertical Growing System using Season Extending Technology, Temperature Control and Soil Based Substrates	$100,000

Funded:

SBIR	Phase I	NIH	Next Generation Functional Neuroimaging (NGFN) Feasibility	$238,517
STTR	Phase I	NIH	Self-Crosslinkable Hydrogel As An Embolic Agent For Traumatic Hemorrhage Control	$225,000
STTR	FAST Track	NIH	Intravesical Oncolytic Therapy for Bladder Cancer	$156,755
SBIR	Phase II	DOD	Topical Therapeutic for Ocular Trauma	$1,000,000

PUBLIC POLICY {www.mhta.org/advocate}
John will be convening the Government Relations Committee in October to begin planning for the 2018 Legislative Session. We are also engaged with the Dayton Administration, Greater MSP, and other stakeholders in putting together a proposal to attract Amazon's second headquarters (HQ2), and will be submitting a letter of support to encourage Amazon to locate HQ2 in Minnesota. Additionally, we will be convening a group of key state lawmakers and member organizations to discuss cybersecurity issues.

COMMUNICATIONS

We are continuing to actively promote the Minnesota Venture Conference and Tekne Awards. We have promotional calendars, press kits, and partner resource pages for our major events. We also have media partnerships confirmed for both the Minnesota Venture Conference and Tekne Awards.

Recent media coverage has been strong with stories on the Venture Conference, Tekne Awards, and efforts to bring Amazon's HQ2 to Minnesota.

Our social media presence continues to grow. MHTA's Twitter account gained 47 followers in September and 19 so far in October, putting the total number of followers at 3,936. Our LinkedIn page gained 27 followers in September, and another 13 so far in October, up to a total of 1,853.

MHTA Recent Media Coverage:

September 2017

Pioneer Press – FAST grant/SBIR: http://www.twincities.com/2017/09/02/business-people-sunday-sept-3/

Aspirations in Computing Awards: http://www.wireupdate.com/2017/09/05/minnesota-state-it-center-of-excellence-announces-sixth-annual-aspirations-in-computing-award/

AP on Amazon 2nd HQ announcement: http://www.startribune.com/minnesota-prepares-to-fight-for-amazon-s-2nd-headquarters/443065803/

MPR on Minnesota immigration and workforce: https://www.mprnews.org/story/2017/09/14/minnesota-immigrant-workforce

Tekne Awards in MinneInno newsletter: http://mailchi.mp/8a638631e628/minneapolis-cycling-co-launches-kickstarter-to-get-bikes-to-the-blind-mhta-tekne-award-finalists?e=cdf78ofb52

GoMN on Amazon: https://www.gomn.com/news/amazons-hq2-how-it-could-dramatically-transform-the-twin-cities-tech-scene

October 2017

Tekne finalist releases:

- Comcast: http://www.businesswire.com/news/home/20171002005282/en/Comcast-Named-Finalist-18th-Annual-Tekne-Awards
- ABILITY: https://abilitynetwork.com/wp-content/uploads/2017/10/ABILITY_Network_Named_Finalist_for_18th_Annual_Tekne_Awards.pdf
- EnergyPrint: http://www.prweb.com/releases/2017/10/prweb14755653.htm

SBIR recipient Lite Run in Star Tribune: http://www.startribune.com/lite-run-gets-100k-grant-to-further-device-to-help-people-with-balance-problems/449063063/

Worth Magazine on Minneapolis-St. Paul tech, sports tech: http://www.worth.com/destinations-2017-minneapolis-st-paul/

OPERATIONS & FINANCIAL

Year to date financials through September are complete. Net income is $38K vs budgeted net income of $49K. Membership income has caught up slightly, and is currently off plan by $35K. Overall event income is running close to plan, however we are projecting the CIO Forums to come in under plan by $7,500 and the Venture conference to be under by $80K, which is mainly made up of unfulfilled sponsorship revenue. Scitech and SBIR programs running to plan, as well as most categories of expenses.

The FAST Grant was awarded for the SBIR/STTR program at the end of August for the Federal fiscal year of Sept 30th, 2017 – Sept 29th 2018.

The SciTechsperience program has been awarded funding for the 2017-2019 state fiscal year at 2.565m. These program funds will be used during the 2018-2020 MHTA budget cycle and include 1.67M of matching funds for internships.