Hamilton Health Innovation Check-up: Meeting Minutes

March 26th, 2018

STANDING AGENDA TOPICS:

- **Guest Speaker Discussion**: insights around the experience and expertise of an invited speaker, focusing on a subject that may be of interest to the broader community

- **Communicate**: share recent successes, upcoming events, innovation pipeline and new products, health innovation trends, etc.

- **Collaborate & Accelerate**: welcome new members to community, partnership opportunities, discover programming and resources available to the community, discuss market gaps and challenges, learn about potential funding opportunities, new RFPs issued, etc.

Facilitator & Note Taker	Alex Muggah, Synapse Consortium
Location	McMaster Innovation Park, 175 Longwood Dr, 8:45-10:00am

Please note that minutes for our monthly check-up meetings are not published and are for reference purposes only. We do our best to ensure all information is accurately portrayed, and that no privileged/private information is inappropriately disclosed.

Past meeting minutes can be access through a public Dropbox, using the following link:
https://www.dropbox.com/sh/wszh8i2jq1sr03g/AACByBs-HmHVBl0ZIX5Hj7zEa?dl=0

For additional information on any subject, to contact a presenter directly, or should you have an adjustment to make to the notes made here, please contact: Alex.Muggah@SynapseConsortium.com. Updates will be reflected in a new section titled "Amendments from Previous Meeting".

Next Monthly Check-up: April 30th | 8:45 – 10:00am | McMaster Innovation Park

Please contact Alex Muggah at Synapse to be added to the meeting invite list / minutes distribution lists

Time allotted | *20 Minutes*

Topic: **Guest Speaker Discussion**

Insights around the experience and expertise of an invited speaker, focusing on a subject that may be of interest to the broader community

Guest Speaker Discussion
Guest Speaker(s):   • Nicole DeLong (Business Development Manager, OCE)   • Gillian Sheldon (Client Services Team Lead, OCE)   • Jonathan Sachs (Health Service Provider Lead, OCHIS)   Topic: Health Technology Fund
[the following is a synopsis of the discussion, and has been lightly edited for length and clarity]   Health Technology Fund is a program meant to support made-in Ontario health innovation. The $20 fund was developed by the Office of the Chief Health Innovation Strategist (OCHIS) and is meant to support health innovation across the province. Two of the three rounds of applications have already been completed. The third and final round, which will allocate $8 million, is meant to facilitate links between private-sector technology partners and healthcare providers, including community support groups.   The goal of the program is to create better healthcare closer to home, with particular focus on novel technologies that can support patient care in the home. There are three themes that will be used in the evaluation of applications: • Client care coordination (how can patient coordinate care with the provider, to drive what their care looks like).   • Continuity of care provider (community care side, how can they coordinate care more effectively, including scheduling, transportation, logistics, access to promixity care, etc.)   • Supporting clients to live independently (technologies in the home that can help them to live better and longer in the home)   How to apply: Initial expressions of interest (EOI) applications are due on May 9, and are submitted by a Health Innovation Team (comprised of the private-sector applicant, a public provider, and a third-party evaluation provider). The evaluation provider will help with technology diffusion, design and health economics. It is also encouraged to include community based associations (e.g., LHIN, advocacy groups) as part of the application.   The final HTF round had two streams (early adoption, pre-market evaluation). The early adoption and pre-market evaluation streams were primarily differentiated between those projects looking at a single- vs. a multi-site deployment of innovative health technology. Successful HTF projects are

Guest Speaker Discussion

meant to demonstrate the clinical impact of innovative technology, and assess change management considerations required to support its adoption into the healthcare system. OCHIS is also focused on demonstration of the economic benefit to the private sector partner, and ideally scale up. All technologies should already have regulatory approvals.

The early adoption stream makes available up to $500,000 per project, while the pre-market evaluation can provide funding up to $1 million per project. The application team needs to provide in-kind matching of 1-to-1 to release funds.

Question & Answers

Question: Do you have some examples of past projects?

A local example was a technology that developed by a Burlington based company, which did cardiac monitoring. The technology enabled patients to be monitored from home post surgery, rather than having to stay in a hospital bed for 5-10 days during the recovery period. This project was funded under HTF's 2nd round – no results yet, but an example of helping patients to go home

Question: How long can projects take to complete?

HTF projects can be up to two years in duration

Question: Are there major differences from MaRS excite program

The HTF project has funding available for projects. As well, it is a three-stage application, first an expression of interest, then a full application, and then a presentation before a selection panel.

Question: How many selected in prior rounds?

The specifications of the program have become more defined with each round. In round 1, HTF received over 200 applications, with 15 being funded. In round 2, there were 80 applications, with 12 receiving funded. In round 3, the hope is to deploy $8 million.

Question: What makes for a strong application?

Of particular importance in being selected is the quality of the application team. Having a publicly funded service provider, a technology that aligns with the theme, and having support networks in the community. It is also of significant benefit to have advocacy groups on side; indeed, a conversation with your local LHIN is almost a necessity to get the awarded application – expectation is that most will have commitment letter from the LHIN demonstrating their awareness the application and supportive of the project outcomes, including on how it could impact the local area.

When considering an application, it is worth exploring the connection between the patient and their experience at home vs. at the hospital. Understanding who are the community partners after they walk out of the hospital door, how do systems interact and how are handoffs made, and how is the patient empowered to more meaningfully manage their own care.

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Guest Speaker Discussion

Question: Program is meant to push technology forward. Is there a pull to help them to be implemented on the policy side?

Aligning policy with adoption of innovative technology is one of the reasons OCHIS is pushing this program. The HTF program emerged from the Patient First Act, helping patients become more integrated in their own care. It also aligns with the Digital Health Strategy, which OCHIS was involved in.

Question: more background and contact?

There is more information in the HTF on the website, and you can also have a conversation with Gillian (Gillian.Sheldon@oce-ontario.org) and Nicole (Nicole.DeLong@oce-ontario.org), and our offices are located at the McMaster Innovation Park.

Question: Other OCE programs that are available?

If you have a problem, come to OCE and we'll help you solve it – or find resources that can. For example, Voucher of Innovation and Productivity program is designed to support industry-academic partnerships, and can be leveraged to find partners within the healthcare community. If you're looking to hire a masters or PHD, there is funding for this through TalentEdge, to help pay for internships.

Time allotted | *20 Minutes*

Topic: **Communicate**

Recent successes, upcoming events, innovation pipeline, new products, health innovation trends, etc.

Discussion	Presenter
The McMaster-Fraunhofer Biomedical Engineering and Advanced Manufacturing Institute (BEAM) has officially opened its doors. The $33-million laboratory and advanced manufacturing facility located at the McMaster Innovation Park will allow researchers to develop new diagnostic tests and treatment for a wide range of diseases, and then prepare them for the marketplace To learn more about the BEAM facilities, or to contact them directly, click here	Alex Muggah (Synapse)
The Hamilton Health Innovation Week (April 23-29) website is now live. Check out events and registration links at: http://hamiltonhealthinnovationweek.ca Hamilton Health Innovation Week 2018 (#HHIW2018) is a showcase for innovators and practitioners pushing the boundaries of health innovation. Across more than a dozen events, HHIW2018 serves as an opportunity to learn how practitioners can, and are, turning great ideas into practical real-world solutions that improve patient health, simplify care delivery, and bend the cost curve. To learn more about HHIW, and links to registration pages, click here	Alex Muggah (Synapse)
McMaster Venture Fair conference, hosted by the McMaster Industry Liaison Office (MILO), will bring together researchers from the Faculty of Health Sciences and other disciplines will come together to enjoy a networking lunch and an interactive roundtable session and have questions answered by investors. To see the full agenda, and register for the event, click here	Alyssa Posca (McMaster, MILO)
The Apps for Health and FHIR North conferences hosted by Mohawk College (key partners in the annual Hamilton Health Innovation Week) have launched their updated website. This year's conference will take place on April 25 and April 26. Last year more than 500 innovators, 100 companies and the Canadian Minister of Health gathered at Mohawk to explore the frontier of digital health innovation. For more information, including registration, call for speakers or sponsorship, reach out to the event organizers at: http://appsandfhir.mohawkcollege.ca	Alex Muggah (Synapse)
Come join us as we kick off Hamilton Health Innovation Week with a Networking Reception on April 23 where you can meet and mingle with innovators, entrepreneurs and researchers from across the Hamilton health ecosystem! Refreshments will be provided.	Alex Muggah (Synapse)

Discussion	Presenter
This event immediately follows the McMaster Health Science Venture Fair where top McMaster health science researchers will pitch their novel ideas to venture capital investors!	
Professor Michael McGillion (McMaster University, PHRI), recently authored a piece on the technological revolution of healthcare exploring how Hamilton researchers and practitioners are bridging the gap between a patient and their hospital team using remote monitoring technology. In particular, he explores how the SMArTVIEW project – a unique collaboration looking specifically at improving outcomes for patients who undergo cardiac and vascular surgery – is demonstrating a focus on digital health to create new care pathways outside of the hospital. This project demonstrated academic and clinical expertise is leveraged across the Hamilton ecosystem, including McMaster University and Hamilton Health Sciences to develop a solution that will make a difference for cardiac patients.	Alex Muggah (Synapse)
Summary: Panel on Health Ecosphere (Mar 20), hosted by MDGII and CCHL In healthcare, there are few uptake mechanisms for new technologies and opportunities for entrepreneurs to speak with health providers. Another great event for the Canadian College of Health Leaders Hamilton & Area Chapter, where health executives, industry partners, organizational leaders and students gathered to learn about the Health Ecosphere Innovation Pipeline. This initiative encourages organizations to leverage their strengths to meet health demands and co-develop pathways to build 'innovation supply' (technologies and companies) that meets 'innovation demand' (clinical need). This collaborative initiative, led by Southlake Regional Health Centre, York University, ventureLAB, and University Health Network, allows companies to test an idea and understand the systems they will need to work with to implement their solutions. A pleasure to moderate the discussion with panelists Alex Muggah, Niusha Barmala and Patrick Clifford.	Alex Muggah (Synapse)
Congratulations to Brandon Aubie on winning the Hamilton Chamber of Commerce 2017 Outstanding Business Achievement Award - for being a phenomenal Young Entrepreneur! Brandon helped found QReserve Inc, a company looking to connect people resources on an enterprise-wide scale. QReserve is working with organizations around across Ontario and around the world, including: McMaster University, Hamilton Health Sciences, The Hospital for Sick Children, The University of British Columbia (Okanagan) and Brock University.	Alex Muggah (Synapse)
Discussion on Hamilton's Intelligent Community Designation, April 5 In February, Hamilton was named one of the world's Top7 Intelligent Communities by the Intelligent Communities Forum (ICF). Hamilton will be hosting Robert Bell, one of ICF's top city judges on April 5th and 6th where the city and its partners will showcase the programs and partnerships that were highlighted throughout this process.	Alex Muggah (Synapse

Discussion	Presenter
Join an open discussion on April 5th about Hamilton's Intelligent Community TOP7 designation, what's being done, what's ahead and hear firsthand from Robert Bell what this designation means to communities.	
Mohawk Partnership Dinner (April 19) Mohawk College and its most valued community, educational and industry partners, come together each year to explore shared ideas and opportunities for future growth. This year's Partnership Dinner will celebrate the community's history of working together to improve healthcare in Hamilton and Burlington. Keynote Speaker: • Nathalie Le Prohon, Vice President, Healthcare Industry for IBM Panel Discussion: • Rob MacIsaac, President and CEO, Hamilton Health Sciences • Eric J. Vandewall, President and CEO, Joseph Brant Hospital • Winnie Doyle, EVP Clinical Services, Mental Health and Addictions & Chief Nursing Executive, St. Joseph's Healthcare • Annette Hamm, CHCH Morning Show Co-Host (Moderator)	Alex Muggah (Synapse)
OCE Discovery Day conference (April 30 – May 1) Discussion of the Hamilton presence at upcoming Discovery day (e.g., McMaster, Innovation Factory, etc.) Discovery day is an innovation showcase, with a strong health component. Takes place in the metro-Toronto Technology Centre, and feature organizations from across Ontario, including some VCs. New this year will be a business-to-government discussion, which they're putting together right now. If you're looking to validate technology or find potential partners, please reach out to Gillian Sheldon (Gillian.Sheldon@oce-ontario.org), or to learn more/register for the Discovery Day, click here	Gillian Sheldon (OCE)
Hacking Health Meetup, March 29 Hacking Health is holding its next Meetup on March 29th at the HHS-IBM Innovation Exchange (Suite 400, 1 King St West) at 630 Three presentations will focus on: • HHS-IBM Innovation Space: Hamilton Update • HacktheCity: Genesis • Health Data Privacy	Alex Muggah (Synapse)

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Time allotted | *20 Minutes*

Topic: **Collaborate & Accelerate**

Partnership opportunities, programming and resources available to the community, market gaps and challenges, learn about potential funding opportunities, discuss new RFPs issued, etc.

Discussion	Presenter
The 5th annual Synapse Life Science Competition, proudly supported by Stryker Canada, is coming up on Wednesday the 28th. The top 3 finalists are presenting in front of a packed house at the McMaster Innovation Park. The Competition is designed to help move innovative Life Science products and services out of the lab and into the market, by pairing up Life Science Innovators with business and entrepreneurship students. Join us and learn more about these emerging life science companies, network with industry thought leaders, and support Hamilton's growing life sciences ecosystem. Refreshments and a cash bar will be available. Visit www.synapselifescience.com for more details	Karen Linesman-Brown (iF)
Tom Brown (Stryker Canada) introduced himself to the community. Styker is an active member of the Hamilton innovation ecosphere, and is engaged in various activities from working with healthcare providers to fundraising. Stryker is open to connecting with members of the community and expects to continue to be engaged in acquisitions and technology reviews going forward. Tom works across all 9 business units at Stryker, supporting them and ensuring there is a consistent and united message delivered to hospitals, buying group, etc. Act as a point of contact to assist customers and partnesr understand all of the products and services offered across Stryker's product line. Can help you get connected (or deliver a fast no if there isn't a match): Tom.Brown@Stryker.com Stryker is building a new building at highway 5 and 6, which is expected to be open in September of 2018. Will combine Stryker's existing 3 building into a single 120,000 square foot facility. Very excited about Stryker investing in a Canadian branch, and looking to build on several strong years (i.e., last year, we've had 3-4 acquisitions, including a Canadian firm in BC). At the Stryker facility, we'll have warehousing, distribution and administrative capabilities, though we don't currently have significant R&D presence. Manufacturing is done in London and out in BC (Novadek, new acquisition), as well as around the globe. The vast majority of Canadian-based employees are in the Hamilton-Burlington region.	Tom Brown (Stryker Canada)

Discussion	Presenter
Andrea Lee, the new Research Development & Innovation Officer from Hamilton Health Sciences (HHS) introduced herself. Mandate is to grow the number of projects and companies collaborating with the HHS-IBM Innovation Exchange, and strengthen its traction within the community. I will be working closely with the VP Research & Chief Innovation Officer at HHS as well as the IBM team. Am very interested in meeting companies who are developing digital health technologies and may be interested in partnering with HHS and/or IBM. Expectation is that collaborative partnership would enable a company to leverage the technical capabilities of IBM and the research and clinical champions at Hamilton Health Sciences. To connect with Andrea, reach out via email: LeeAnd@hhsc.ca	Andrea Lee (Hamilton Health Sciences)
Impact Capital monthly "United States VC" one-on-ones, last Monday of the month following the Hamilton Health Check-up Open to early stage companies interested in angel and series A funding, the focus of these meetings is to identify companies that are far enough along so the Impact Capital team can help them with their plans to expand into the United States. In addition to financing, Impact Capital can also deploy their D21 platform, which is meant to leverage an extensive network and capabilities to overcome many of the challenges of establishing a new business in the United States (e.g., regulatory approval, standing up new company, legal and patent advice, etc.). To set up a meeting with Impact Capital, please reach out to Alex Muggah (Alex.Muggah@SynapseConsortium.com)	Alex Muggah (Synapse)
City of Hamilton and Synapse Consortium will be heading to BIO 2018 in Boston this year. For organizations and companies that are interested in participating, please reach out to Carolyn Reid (Carolynn.Reid@hamilton.ca), at the City of Hamilton Economic Development Division for more information	Alex Muggah (Synapse)
3i Ontario, lists grants, funding and partnership opportunities for life science companies. 3i Ontario is maintained by Azimuth Health Group, an Ontario Innovation Broker	Alex Muggah (Synapse)
CTO 2018 Clinical Trials Conference will be taking place March 27-28. Many academic institutes and the research hospitals will come together to discuss challenges of doing clinical trial. Vendors/providers there to identify resources to clinical trial sponsors., and Gail Martin (Executive Director, St. Joseph's Research Institute, gmartin@stjoes.ca) will be attending. Has offered to share information about the event if you're interested].	Gail Martin (St. Joseph's

Hamilton Health Innovation: Calendar Highlights

March

- March 27-28: CTO 2018 Clinical Trials Conference (hosted by Clinical Trials Ontario)
- March 28: Synapse Competition Pitch Showcase, presented by Stryker Canada
- March 29: Hacking Health Meetup

April

- April 5: Intelligent Hamilton: Global TOP7 Celebration (City of Hamilton)
- April 9: Impact Health 2018: Opening Summit to THIW 2018 (TO! Health)
- April 10: RESI on MaRS 2018 (Life Science Nation)
- April 11-12: Canada's MedTech Conference 2018 (MEDEC)
- April 12: The EMR: Every Step Conference (Ontario MD)
- April 9-13: Toronto Health Innovation Week 2018
- April 19: Partners in Healthcare (Mohawk College)
- April 23-29: Hamilton Health Innovation Week 2018
  - April 23: McMaster VC Venture Fair (McMaster)
  - April 23: HHIW Kickoff Networking event (Synapse Consortium)
  - April 24: iF Health Workshops: "Avoiding Pitfalls of Innovation" & "Accessing US Market" (iF)
  - April 25: Apps for Healh (Mohawk College)
  - April 26: FHIR North (Mohawk College)
  - April 27 – 29: IBM Hackathon
  - April 27: NeuroXchange Conference 2018
- April 30: OCE Discovery Day

May (and Beyond)

- May 1: OCE Discovery Day
- May 4: Annual Medical Imaging Informatics & Teleradiology Conference (MIIT)
- May 15-16: 3rd Annual IoT, Big Data Healthcare Summit Canada
- May 27-30, annual e-Health Conference and Tradeshow (in Vancouver)
- June 4-7: BIO International Convention 2018
- June 19: MedEdge Summit 2018
- October 16-18: 21st TCI Network Global Conference (Institute for Competitiveness & Prosperity)

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