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Conference & Exhibition | March 5–9, 2018

Las Vegas | Venetian – Palazzo – Sands Expo Center

OHI: Healthcare Interoperability at the Olympic Games

Session #148, March 7, 2018

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Michael Nusbaum, Executive Lead



OHI

Olympic Healthcare
Interoperability Initiative

COMMITMENT

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Conflict of Interest

Todd Cooper, BA

Michael Nusbaum, BASc, MHSA, FHIMSS

have no real or apparent conflicts of interest to report

Agenda

- What is OHI?
- The Olympic opportunity
- What we've learned
- The path forward
- Questions
 - for you
 - for us



Learning Objectives

- Recognize the healthcare system operated as an integral part of each Olympic Games, and how digital health can represent a microcosm of an interoperable international ecosystem.
- Analyze the opportunities to add significant interoperability components to the Olympic digital health infrastructure.
- Recognize the lessons that can be learned from the Olympic experience, and apply these to any jurisdictional implementation of digital health.
- Identify the enormous media opportunity afforded by the Olympics to promote the use of established international standards as an essential foundation of interoperability.
- Discuss how the Olympic legacy can benefit from internationally-recognized digital health standards, architecture and an implementation framework, which will be left for an Olympic host country to further develop once the Olympics are over.

What is OHI?



- A Digital Health initiative, sponsored by HIMSS, SNOMED International, and the HIMSS SoCal Chapter
- A facilitated and managed specification and process to advance the seamless exchange and use of health information, using established international standards, to support an integrated medical services infrastructure at each Olympic Games site.
- OHI leverages multiple vendor solutions to connect pre-Games person-specific healthcare information with information generated at Games time by Olympic and host city service providers
- OHI leaves a legacy that promotes the globalization of digital health



Our Mission

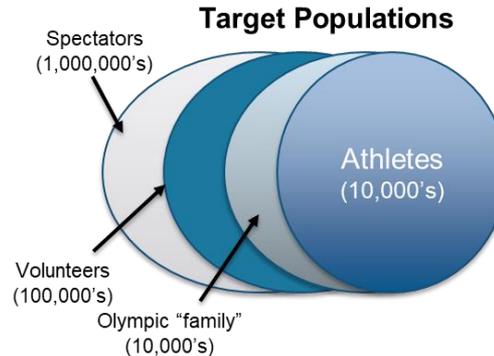
Advancing the seamless exchange and use of health information, using established international standards, to support an integrated medical services infrastructure at each Olympic Games site.

The OHI network connects pre-Games person-specific healthcare information with information generated at Games time by Olympic and Host City service providers

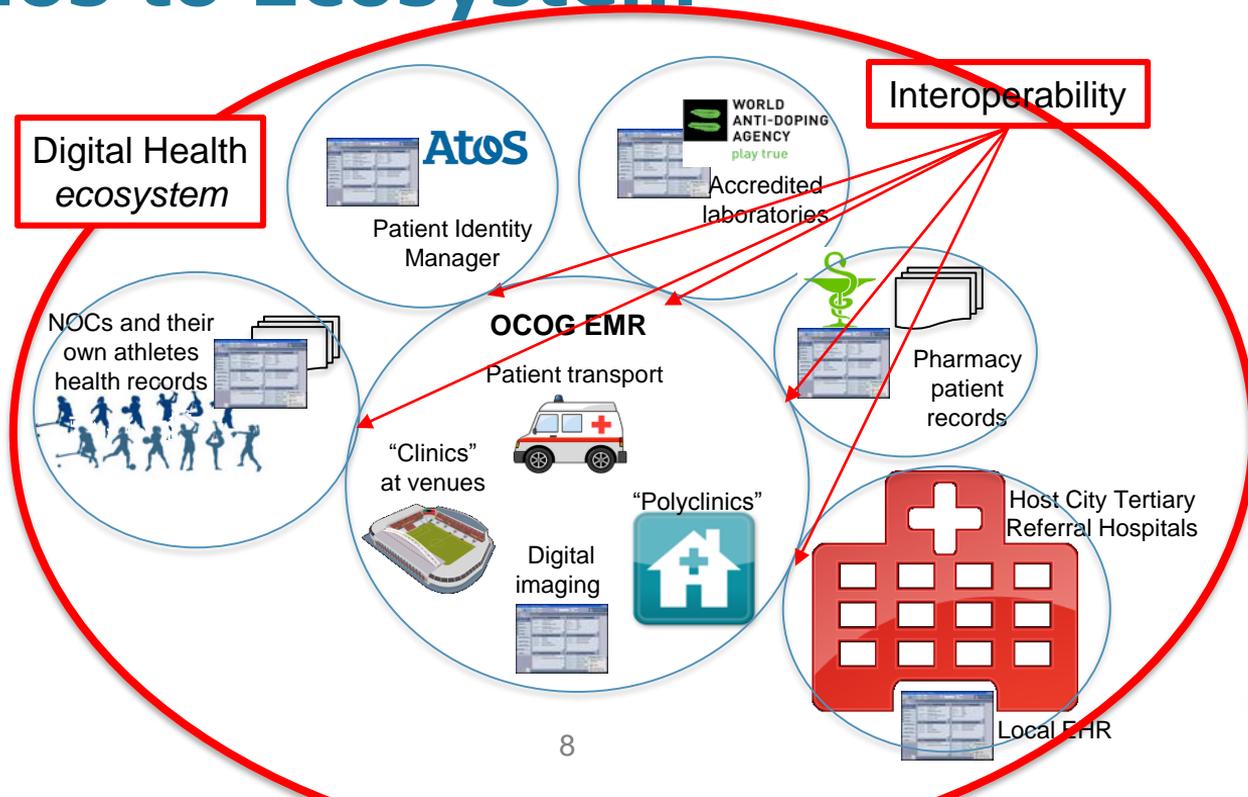
The Olympic Opportunity



- Every two years, people from around the world converge on a community to compete in Olympic Games
- Celebration of athletic excellence and inspiring the world to strive to excel in every endeavor
- Promotion of innovative and best practice
- The IOC requires the provision of a “medical services” infrastructure to support:



From Silos to Ecosystem



OHI Interoperability Use Cases*

Athlete Cardiac Event

Twenty-four-year-old athlete Tasha Thomas ran the track while showing symptoms of being light-headed in the chest.

Olympic Family Member GI Event

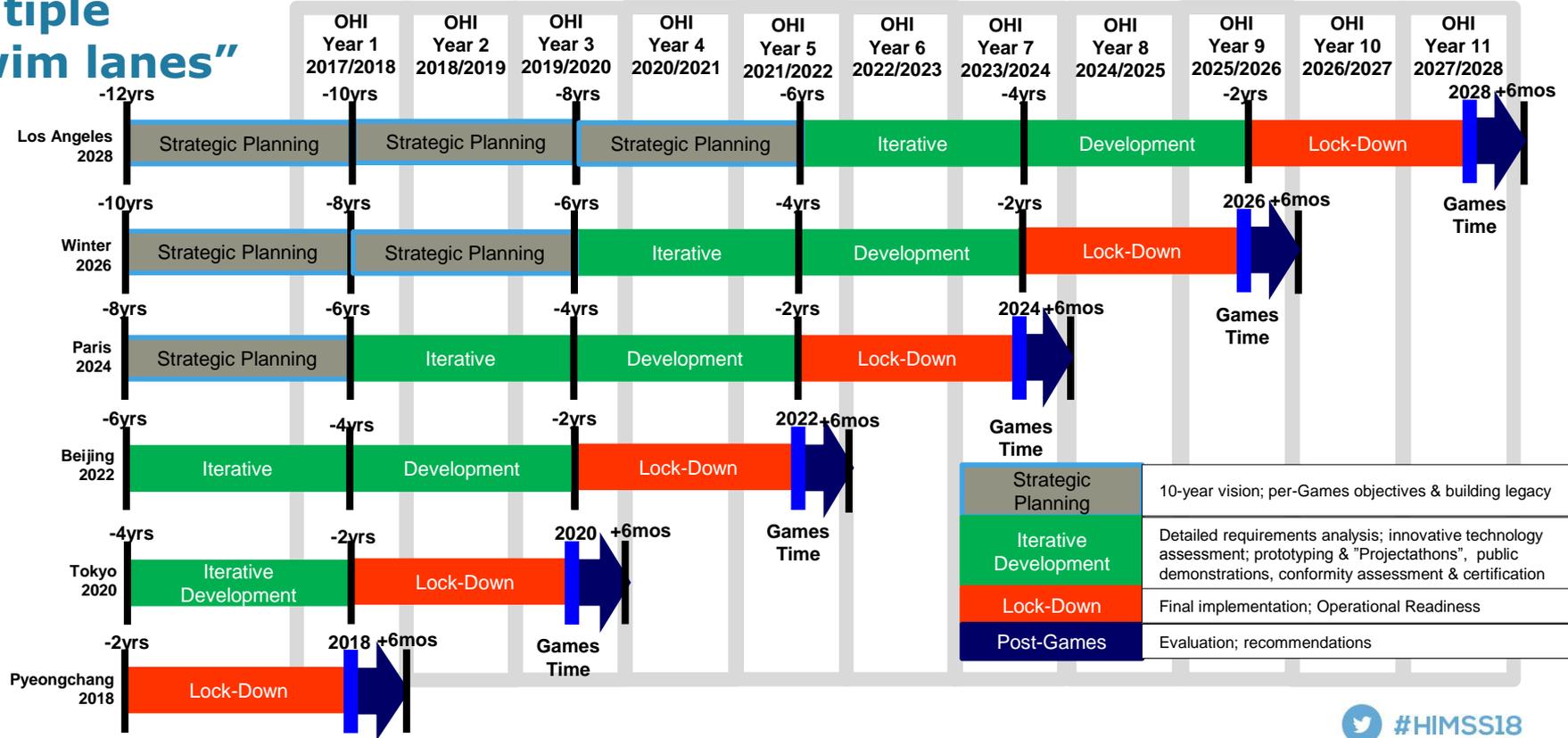
70-year-old father emer Brian Thomas had a episode of acute chest pain while watching his daughter compete in the 100-meter.

Benefits to Interoperability at the Olympic Games

- Faster response between onset of symptoms and treatment
- Fewer diagnostic tests required (elimination of redundancy), reducing both time and costs
- Improved quality of treatment, based on access to more complete clinical information
- Improved patient safety, especial with respect to medication errors
- Closed loop of clinical information: from patient to clinician and back to the patient

* Use Case details in slide NOTES

Multiple "swim lanes"



Importance of Digital Health at the Olympics

- Today, Digital Health is considered an essential component of every healthcare system worldwide
- Information flow following patient flow throughout the system – leads to improvements in quality, reduction in medical errors
- Digital Health → lower cost of providing healthcare services
- Real-time Rx/Lab information integrated with the patient's health record can facilitate active anti-doping surveillance
- Digital Health is well-understood globally – nearly every country is implementing a Digital Health strategy. However, the Olympic movement has not taken advantage of its digital health potential
- Digital Health relies on the collaboration of stakeholders from across the health care ecosystem, supported by many different systems from many different vendors...
- The IOC can provide increased leadership in this area



Digital Health Industry Support



Value Proposition

Promote an **Olympic class Longitudinal Electronic Health Record** to support a patient through the full Care Continuum

Monitor and better respond to **public health** outbreaks

Facilitate the **retention of the medical and pharmacy patient records after the games**, according to national law and industry best practice

Demonstrate **commitment to innovation**, to facilitate welcoming the world

Track athlete health, perhaps trended over some longer time periods

Clinical data can be anonymized and made available to **IOC/OCOG for Analytics & Planning**

Ensured that **prohibited or contra-indicated medications** are not inadvertently administered by the **OCOG medical team**.

Enhance the **quality and efficiency** of care provided to all participants [reduced costs, increased safety, etc.]

Myths and Truths

- OHI seeks to create an environment that will **enable healthcare information to flow alongside a patient moving through the continuum of care...** at the Olympic Games (sports venues, polyclinics, tertiary referral hospitals, testing labs, pharmacies, etc.). The OHI team is a combination of healthcare interoperability experts and Olympic Games leaders, who are seeking only to “facilitate” the establishment of an interoperable health information ecosystem.
- **We are not “selling” anything.** There is no “company” involved, and no “product” involved with OHI.
- OHI is not seeking any funding from NOC’s. We are **funded separately, and globally.**
- Our “proposal” is that a few NOCs work together as early adopters of interoperable and longitudinal healthcare information supporting our **athletes** and **Olympic family**, as well as **volunteers** and **spectators** coming from around the world.
- OHI looks to establish a **digital health legacy** for each of the cities hosting the Games, as well as sending countries.
- OHI does not seek to change anything about an NOC’s existing choices for an EMR solution to support the team ... only to help enable it to communicate with other systems **using established international standards.** For example, we would work with GE, SAS, and others.
- OHI is very careful to ensure the **Olympic brand** is maintained and that it doesn't threaten the **current business relationships** and **sponsor categories**

Benefits

- **To the Games:**
 - More integrated healthcare, better health, less cost, higher quality, etc.
- **To the World:**
 - Digital Health legacy
 - Demonstration of innovative and best practice
 - Opportunities for developed and developing countries
- **To the Digital Health Community:**
 - Very visible Global demonstration of the use of international standards
 - Valuable implementation feedback from a truly international implementation community
 - Digital Health visibility on the World stage



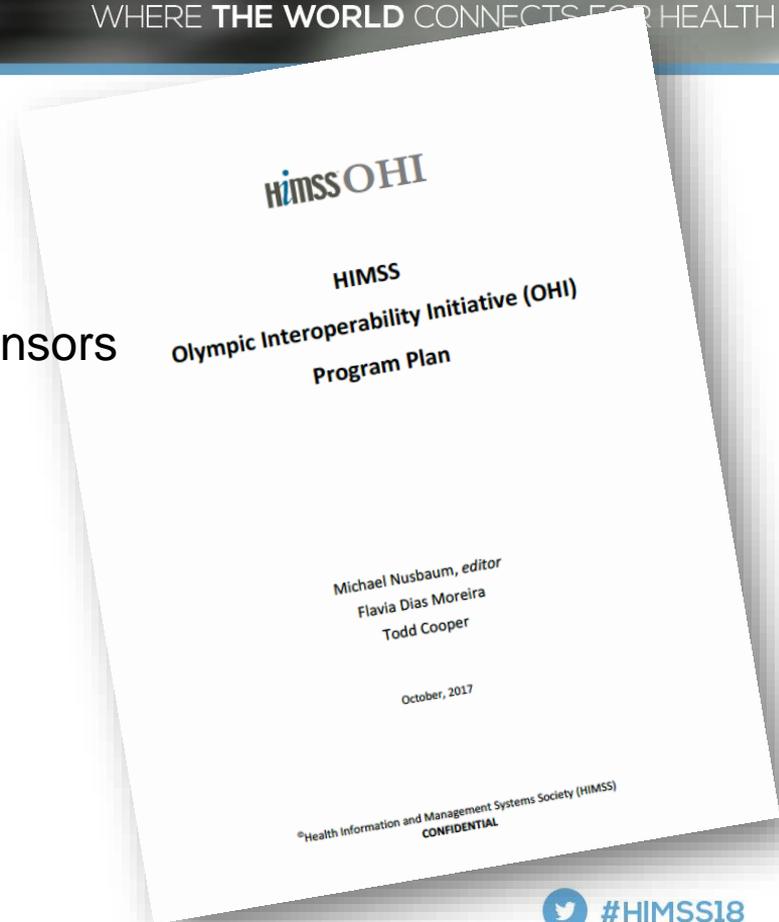
The IOC Sponsorship Program

- *Based on principle of “exclusivity”*
- *Digital Health cuts across sponsor domains*
- *Interoperability involves multiple vendors’ systems*

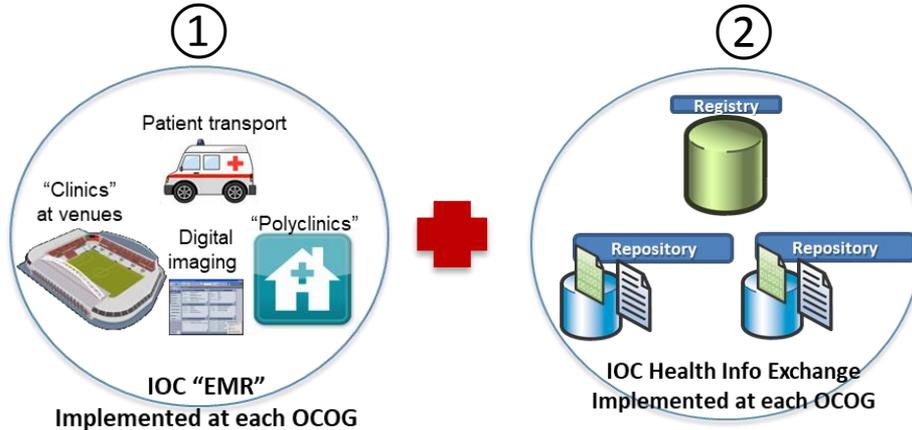


The Path Forward

- Program Plan – submitted 31Oct17 to sponsors
 - Business Implementation Strategies
 - Benefit/Risk Assessment
 - Recommendations
 - Tasks, Resources, Budget
- OHI Foundation launch 2018



A new TOP Sponsor Category: *Digital Health*



OHI Foundation

- Plan and execute a phased, long-range strategy for OHI interoperability
- Manage interoperability specifications and use of international standards
- Conduct “Projectathon” testing
- Facilitate OHI certification of vendor products
- Manage pre-Games implementation, testing, operational readiness
- Manage user training, security and privacy provisions
- Conduct post-Games evaluations



Audience Questions:

Q1: Do you see value in an Olympic digital health ecosystem?

1. For athletes/spectators
2. For host city/country
3. For national teams
4. All of the above

<https://live.eventbase.com/polls?event=himss2018&polls=4255>

Q2: The most important Digital Health legacy for the Olympics is

1. Education and awareness
2. Demonstrate interoperability
3. Illustrate what is possible

<https://live.eventbase.com/polls?event=himss2018&polls=4256>

Q3: Would you consider joining the OHI Foundation?

1. Yes
2. Need more info

3. No

<https://live.eventbase.com/polls?event=himss2018&polls=4257>

OHI will not reinvent the wheel!

- ✓ Leverage established international standards
- ✓ Leverage ConCert, “Connectathon”, “Projectathon” & other testing & Certification events
- ✓ Focus on Olympic use cases across entire Olympic community
- ✓ Include technical, semantic & functional interoperability
- ✓ “Future proof” OHI implementation



The OHI Team of Experts



Michael Nusbaum, BAsC, MHSA, FHIMSS
Business Management

- Executive Liaison
- Stakeholder Relations

- Healthcare Management Consultant
- International Expert: interoperability & standards
- Strategist, Visionary, Project Leader
- Board member: HIMSS & IHE
- Vancouver2010 Games volunteer: alpine events



Flavia Dias Moreira, BBA, PMP
Program Management

- Planning and Governance
- Management Framework definition and communications

- Healthcare Management Consultant & Head of PMO
- Leadership Role in Rio2016 Games (5 yrs) - General Manager and TOC Director
- Expert in Programme Leadership & knowledge management



Todd Cooper, BA
Technical Management

- Collaboration with vendors and health organizations
- Technical implementation leadership

- Healthcare Technology Consultant
- International Expert: trusted interoperable healthcare systems & medical devices
- Expert in Interoperability standards, testing & certification
- Board member: IHE, HL7 FHIR Foundation



Renato Garcia, MBA
Partnership Development

- Recruitment of Foundation partners
- Contracts and Legal

- Business Development Consultant
- Leadership Role in Rio2016 Games - Sponsorship Sales and Business Development Manager
- IOC Top Olympic Sponsors Account Management

Questions

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