HEALTHCARE IN THE 21ST CENTURY

SoCal HIMSS CIO Forum @ Richard Nixon Library, Yorba Linda CA, USA

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Presented by:

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- ✓ HL7 International Ambassador (2009 – current)
    - ▪ Member HL7 Technical Steering Committee (TSC) - 2016
    - ▪ Co-Chair Structure & Semantic Design Steering Division - 2016
    - ▪ Founding Co-Chair HL7 Mobile Health Work Group (2011 – current)
    - ▪ HL7 2009 Volunteer of the Year Award Winner
- ✓ HL7, IEEE, HIMSS Speaker
- ✓ HL7 MACRA Tutor/Speaker
- ✓ Chair IEEE OC (Region 6 – USA) (2016 – current)
- ✓ Co-Chair IEEE OC CyberSecurity SIG (2015 – current)
- ✓ US Delegate to ISO/TC215 Health Informatics (2009 – current)
- ✓ ISO TC/215 Liaison to ISO/IEC JTC1-WG 10 Internet of Things
- ✓ ICT Expert - World Bank, Asian Development Bank
- ✓ Senior Member: IEEE, ACM

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LAYMAN DEFINITION

- **WHAT IS LIFE**

- **WHAT IS IoT**

WALK DOWN THE MEMORY LANE

- **British Royal Army Medical Corps carries out the first successful blood transfusion using blood that had been stored and cooled**

- **BMW is born**

- **Toggle light switch is invented**

- ***Pacific Aero Products* (later renamed *Boeing) is born***

- **World War I continues**

1916

MOBILE & IoT REVOLUTION!

- **Mobile phone market**
    - **first billion mobile phones: 20 years**
    - **second billion phones: 4 years**
    - **third billion: 2 years**
    - **Fourth & fifth billion: 1 year – in 2013**
    - **2014: nearly One Billion "smart" mobile phones sold globally**
    - **2015 – Over 1.2 Billion smart phones sold**

    - **IoT connected world by 2020**
        - **Projected to be 50 Billion devices**

HEALTHCARE IN THE 21st CENTURY

1. **Next generation: "iPAD™" kids**
2. **Blurred Lines: Impact of Social Media**
3. **Are we there yet: I want it NOW**
4. **Take Charge: Consumer Health**
5. **Gene to genes: from Star-Trek (Gene Roddenberry) to Genetic Health – personalized medicine**
6. **Space – The Final Frontier: "Healthy" flights**
7. **Back to the Future: longitudinal Health Record**
8. **Live long & prosper: from provenance to preservation**
9. **Emerging Areas: IoT (HoT), Big DATA, Open Data**
10. **Global Village: Urban, Rural, Remote, Underserved**
11. **"l'addition s'il vous plaît": Mobile micro-payments**
12. **Take care: CyberSecurity**

Sept 2016

SUMMARY!

- **As we transition to a digital record framework; use of Mobile Health leads the way (in access, capture and dissemination of health information)**

- **As Mobile & IoT Devices become more and more ubiquitous, accessing our Health Information is only a few tap/swipe/transmit away!**

- **HEALTHCARE IN 21st CENTURY**
  - **Cloud connected, IoT driven, micro-services enabled Mobile Health Enterprise**

THANK YOU

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