CEA Technology & Standards

IoT Initiatives

Consumer Electronics Association (CEA)®

About CEA

" The Consumer Electronics Association (CEA) ® is the preeminent trade association promoting growth in the $209 billion U.S. consumer electronics industry. More than 2,000 companies enjoy the benefits of CEA membership, including legislative advocacy, market research, technical training and education, industry promotion, standards development and the fostering of business and strategic relationships. CEA also owns and produces the International CES® — The Global Stage For Innovation."

- 2000+ member companies
- Owner, producer of International CES
  - Las Vegas, Jan. 6-9, 2015
- An ANSI-accredited SDO
  - ~ 1000 participants

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Defining the IoT

All Matter, Space and Time

The Internet of Things

Perhaps something more specific…

The National Sleep Foundation is dedicated to improving health and well-being through sleep education and advocacy. The Foundation is a charitable, educational and scientific not-for-profit organization located in Washington, DC. Its membership includes researchers and clinicians focused on sleep medicine, health professionals, patients, families affected by drowsy driving and more than 900 healthcare facilities.
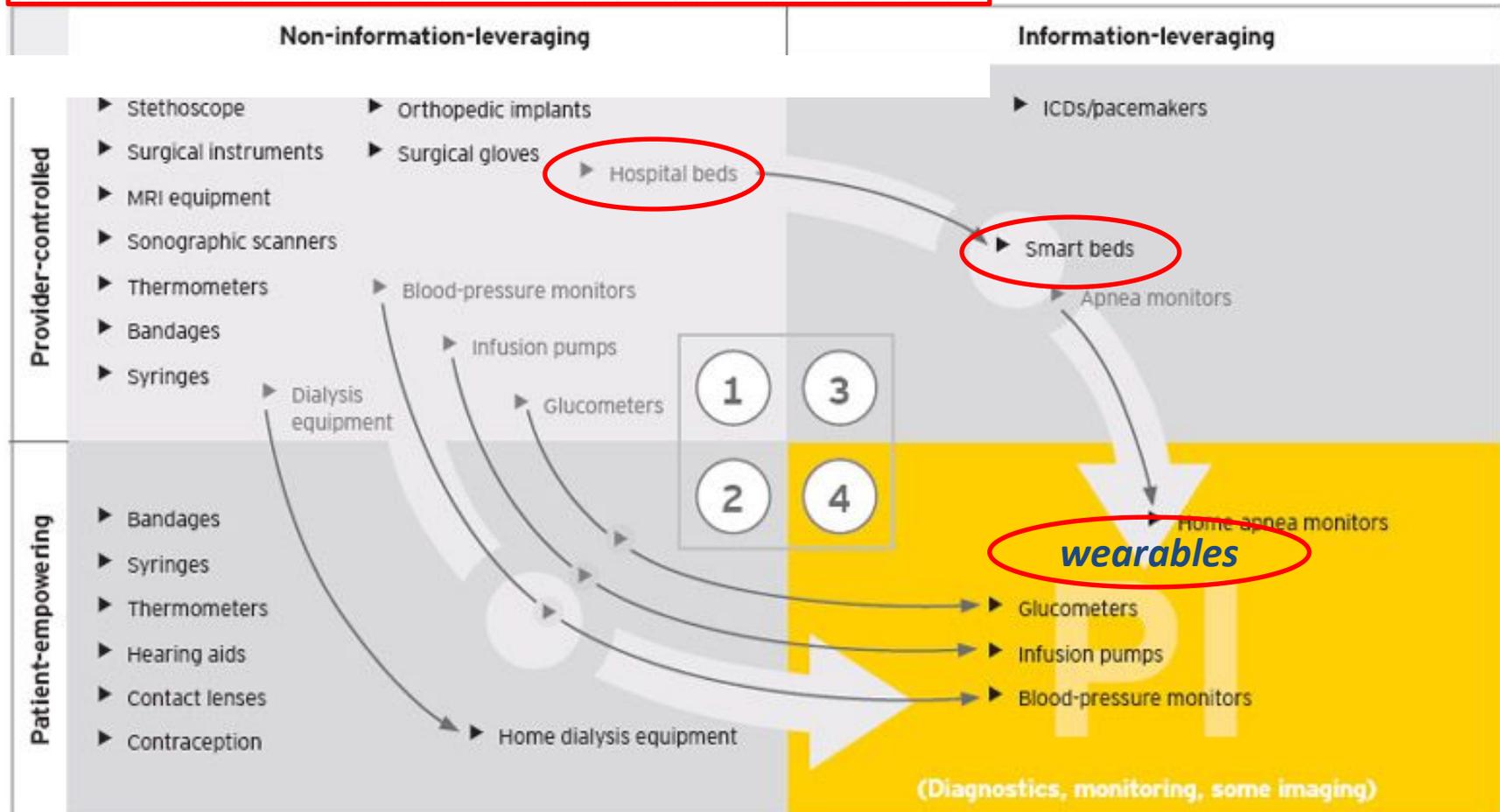
Sleep Tracking with Wearables

The shift to patient-empowering, information-leveraging technologies

Source: Ernst & Young.

Consumer Sleep Tracking

- Variability in what is measured and how
  - What: "Duration", "Quality", Sleep stages?
  - How: Motion? Applicability of stages to "quality"?

- Standards to promote
  - Common terminology (Industry, Consumer)
  - Interoperability w/other bedroom technology
  - Interoperability w/other inputs (e.g. heart rate, light, sound)

- Goal: Create performance benchmarks to advance consumer acceptance of the sleep wearables industry.
  - Wrist and other wearables, implantables, remote monitoring
  - Tracking device, component, software

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CEA IoT-Related Standards Activities and Projects

Some current activities:

- Applications
  - IoT, Wearables: Sleep monitoring
- APIs: XML Schema
  - IoT, Home Automation: Schema to reduce manufacturer API support for 3rd-party developers
- Platforms: Cyber Security
  - IoT, general: Investigating options on security of IoT devices
- Link Layer: IPv6 Deployment
  - IoT, general: Developing IPv6 Profiles of hosts and routers
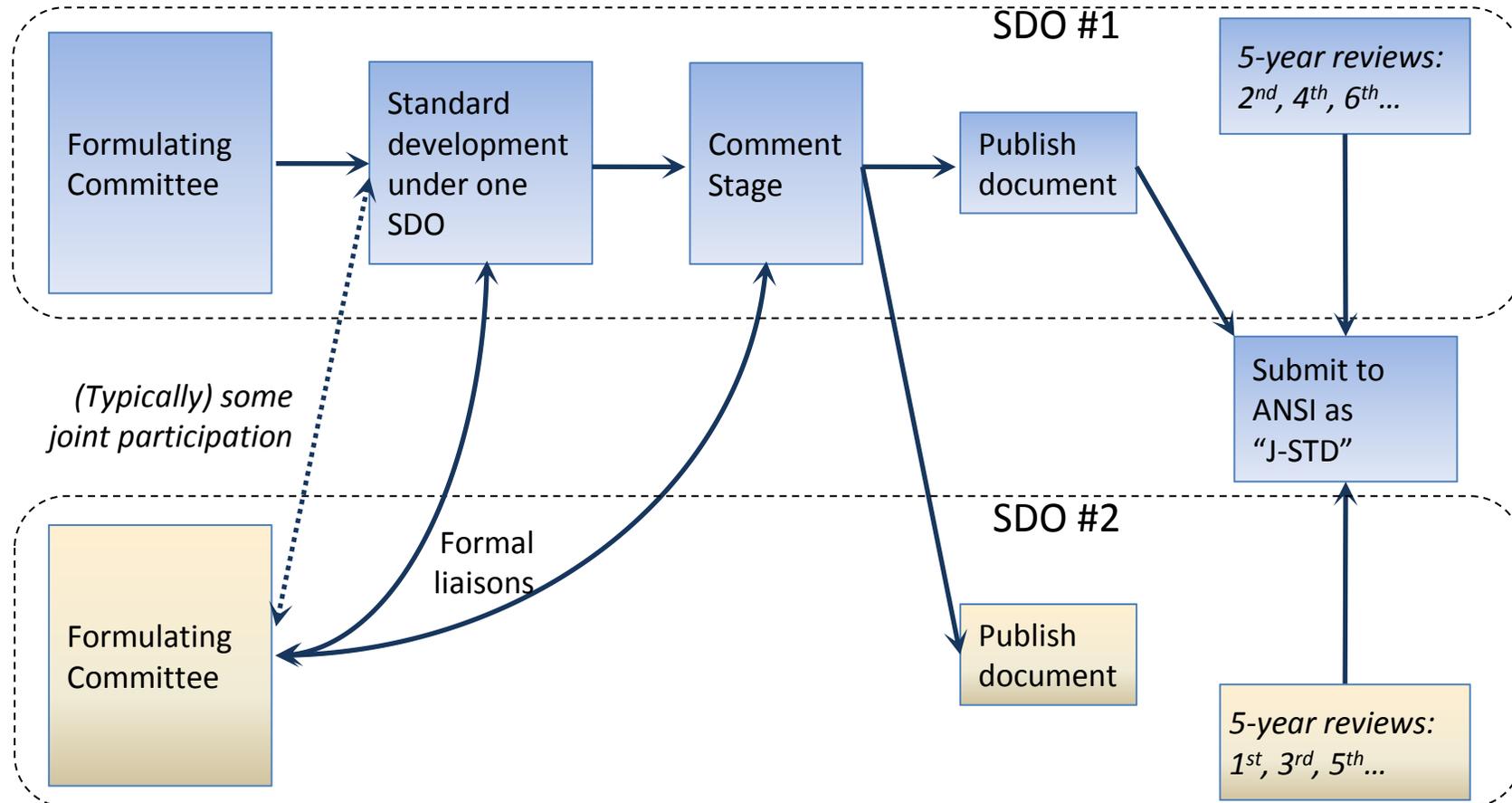 - Planning test event in October 2014

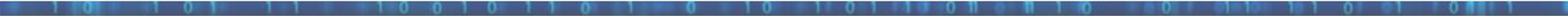*Contact: Mike Bergman /* mbergman@CE.org

Collaboration example

SDO #1

Formulating Committee → Standard development under one SDO → Comment Stage → Publish document

5-year reviews: 2nd, 4th, 6th…

Submit to ANSI as "J-STD"

(Typically) some joint participation

SDO #2

Formulating Committee

Formal liaisons

Publish document

5-year reviews: 1st, 3rd, 5th…

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Questions?

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