

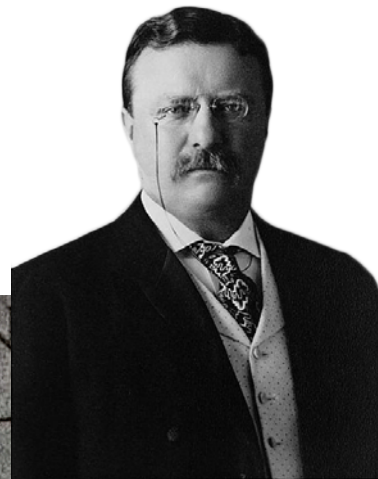
State of the Union for Clinical Interoperability

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Eyes on the Stars; Feet on the Ground




YOU GENEROUS TENDER
BE PRACTICE WELL AS
GENEROUS IN YOUR IDEALS
KEEP YOUR EYES ON THE STARS
BUT REMEMBER TO KEEP YOUR
FEET ON THE GROUND

COURAGE ○ HARD WORK
○ SELF-MASTERY ○


Models for Large-Scale Multiparty Interoperability

- A few dominant players, many subordinate players
- Paid intermediaries
- Standards level the playing field

Interop Requires

Among Two Parties
A “business” relationship
A policy umbrella
A trust agreement
Willingness to modify systems and workflows
“Good-enough” standards
(Usually) bi-lateral adaptation
Committed operational resources
Systematic evolution
Implementable technology
 Ergo: A strong mutual incentive – usually (always?) economic

Interop Requires

Among Two Parties	Large-scale Multiparty
A “business” relationship	Stereotyped
A policy umbrella	Jurisdictional variation
A trust agreement	Manifested through technology
Willingness to modify systems and workflows	(To the stereotype)
“Good-enough” standards	Certified implementation
(Usually) bi-lateral adaptation	Minimal
Committed operational resources	You betcha!
Systematic evolution	Asynchronous bilateral upgrade
Implementable technology	High-productivity technology
 Ergo: A strong mutual incentive – usually (always?) economic	(To the stereotype)

How Are We Doing in the US?

- A “business” relationship
 - Mostly local; locales may extend based on population
 - Best interop occurs among dominant healthcare delivery organizations
- Policy umbrella/Trust agreement
 - Good for push; disappointing cost
 - Improving for pull
- Willingness to modify systems/workflows
 - Huge improvement in awareness
 - Many hurdles remain around clinical data

How Are We Doing in the US? (2)

- Agreed-upon standards/Minimal bilateral adaptation
 - Progress primarily through meaningful use
 - Virtually no success sharing structured data with or without an intermediary through Stage 2
 - (lab?)
 - ePrescribing – dominant intermediary
- Committed operational resources (see economic incentive)
- Systematic Evolution
 - Awareness developing with Stage 3
 - Bilateral asynchronous cutover discussions going on now

How Are We Doing in the US? (3)

- Economic Incentives
 - Meaningful use an artificial but useful incentive
 - Population-based payment may create real economic incentive
 - Variable by locale
 - Incentive to interoperate or consolidate?
 - Near term approach: define your strategy based on limited interoperability

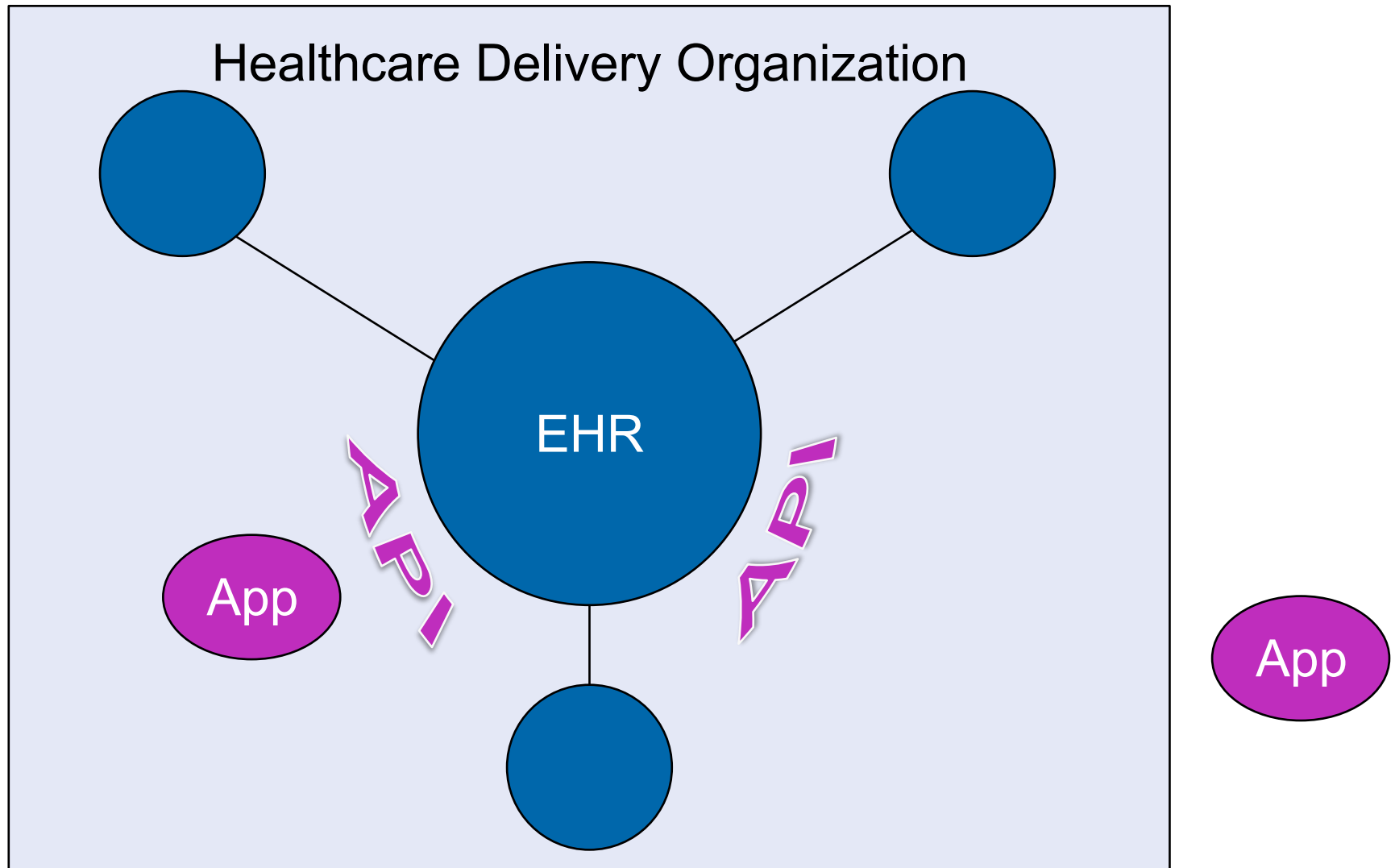
Feet on the Ground: Limitations of Meaningful Use

- US Gov. vs patient ID
- Congressional misfire re HIE
- Mandatory compliance implies small bites
- Federal government internal
- Failed/unproven CDA-based structured data
 - C32 a bust
 - Revised regulatory approach in Stage 2 more focused
 - C-CDA unproven, therefore a regulatory gamble

Eyes on the Stars: Secondary Usage

- “Population health: paid intermediaries providing progress today in population-based locales
- JASON report: http://healthit.gov/sites/default/files/ptp13-700hhs_white.pdf
 - Systemic look at a pull-based architecture
 - Ink-blot test; emblem is the “JASON architecture”
 - Hopefully helps to shape future thinking
- EHR-related applications
 - Based on HL7 Fast Healthcare Interoperability Resources – FHIR
 - Healthcare Services Platform Consortium (HSPC)
<http://healthcaresoa.org/>
 - SMART on FHIR <http://smartplatforms.org/smart-on-fhir/>

Eyes on the Stars API Phoenix



My Goal: To see *some* large-scale, multi-lateral, productive interop before I leave the healthcare system.



Arnold Toynbee



George Lukas

It is a paradoxical but profoundly true and important principle of life that the most likely way to reach a goal is to be aiming not at that goal itself but at some more ambitious goal beyond it.

[Read more at http://www.brainyquote.com/quotes/authors/a/arnold_j_toynbee.html#cwomcLxkmMcbg18k.99](http://www.brainyquote.com/quotes/authors/a/arnold_j_toynbee.html#cwomcLxkmMcbg18k.99)

I didn't begin to get Star Wars right until Return of the Jedi. (paraphrased)