
SMArt:

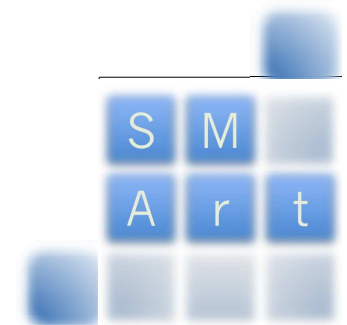
**Substitutable Medical Apps,
reusable technologies**

SHARP Area 3 Overview

Josh Mandel, M.D.

SHARP Area 4 Face-to-face meeting

Monday, June 21 2010

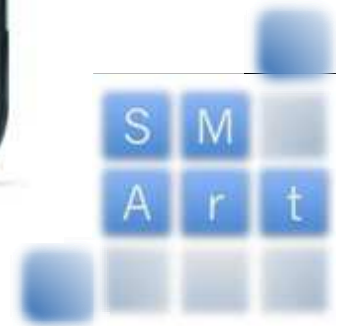


EHR as an “iPhone-like” Platform

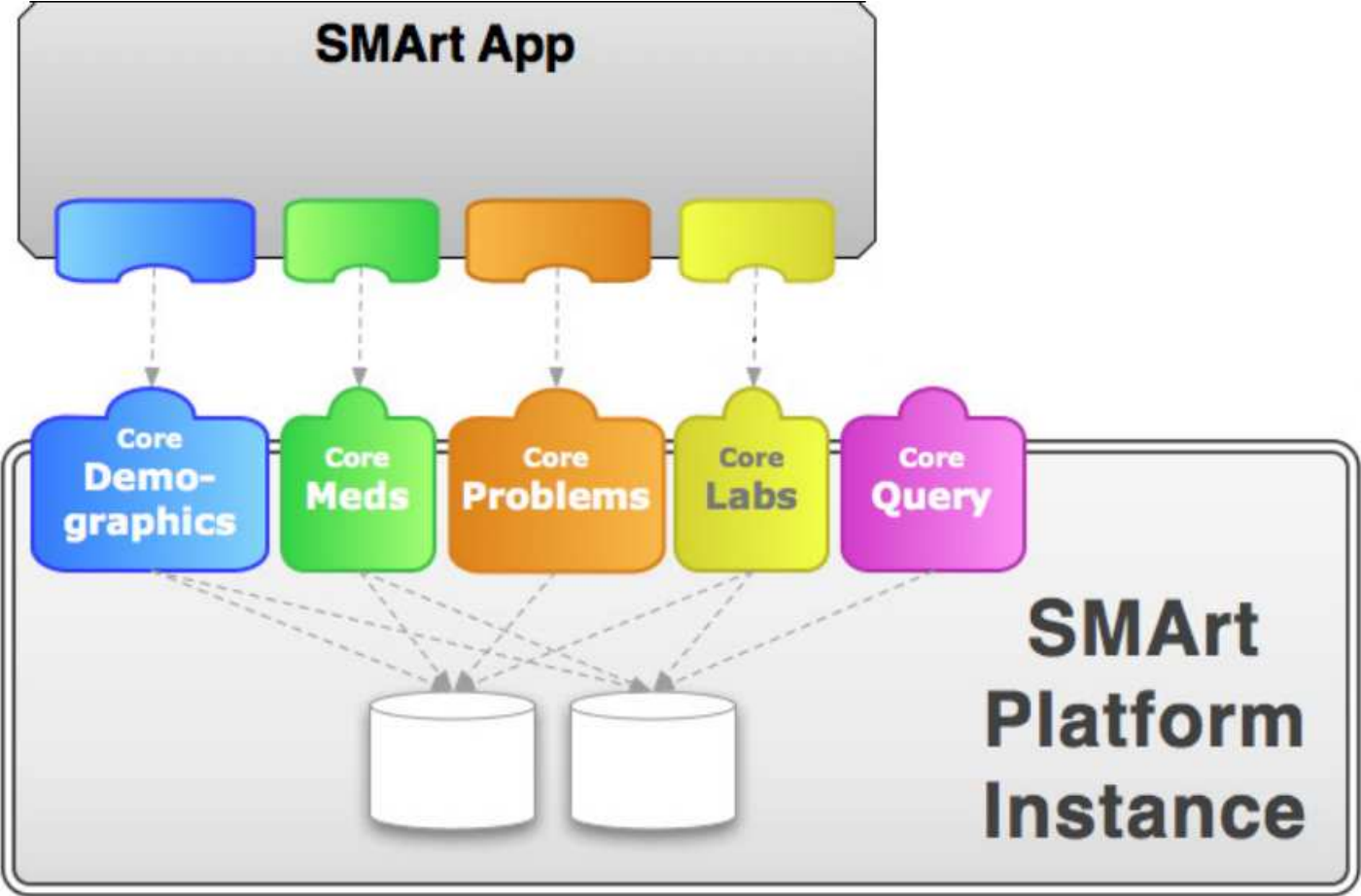
A common **application programming interface**

SUSTITUTABLE applications

- Nimbly evolve functionality
- Avoid vendor lock
- Shrink switching costs
- Push innovation to the edges



SMArt App Programming Interface



SMARt's RESTful* API

Representational State Transfer (REST)

Each resource has a **unique ID** . E.g.

<https://inpc/patients/1234567/meds/active> (med list)

Four fundamental operations:

GET Obtain a representation of a resource

POST Create the resource

PUT Update a resource

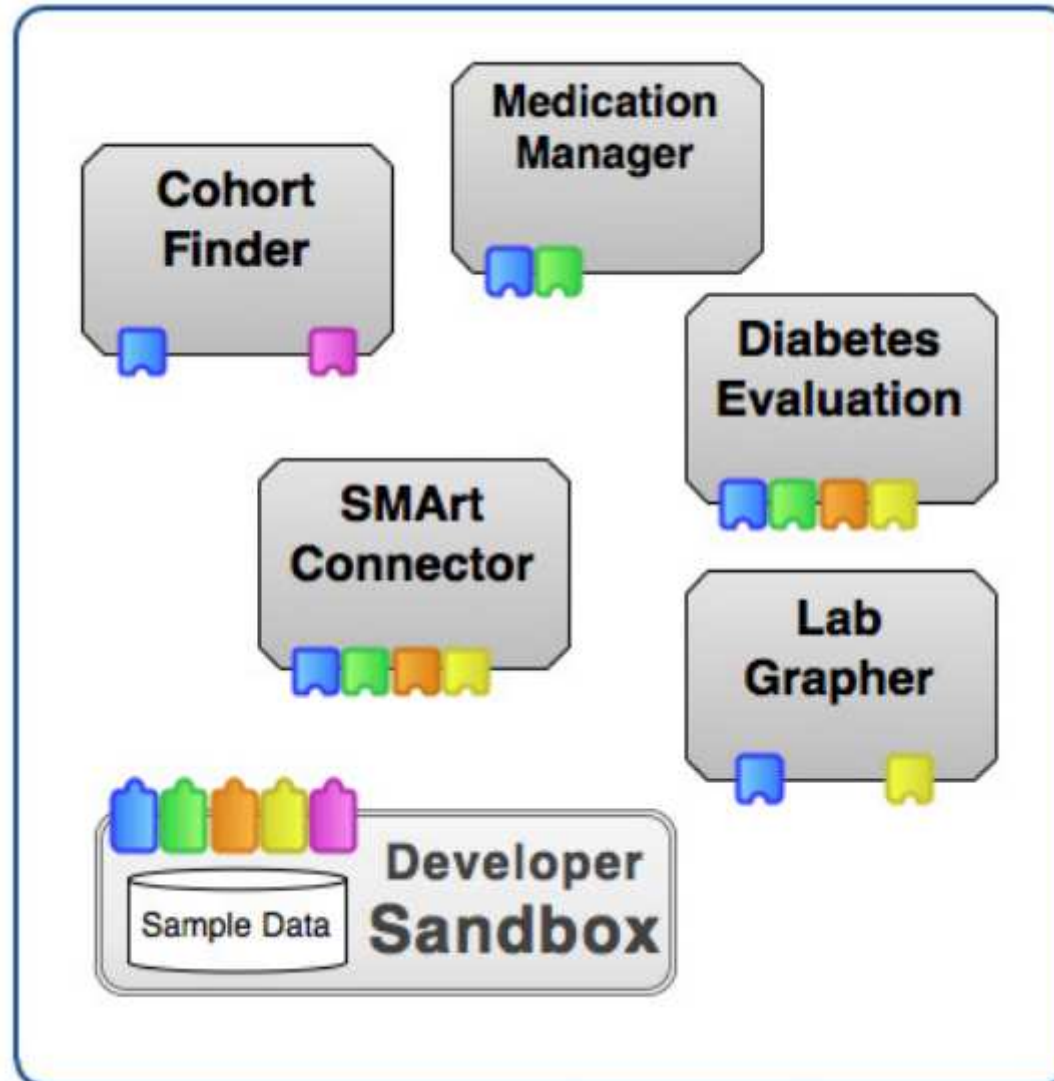
DELETE Remove a resource

Scalable, high-performance approach across the web.

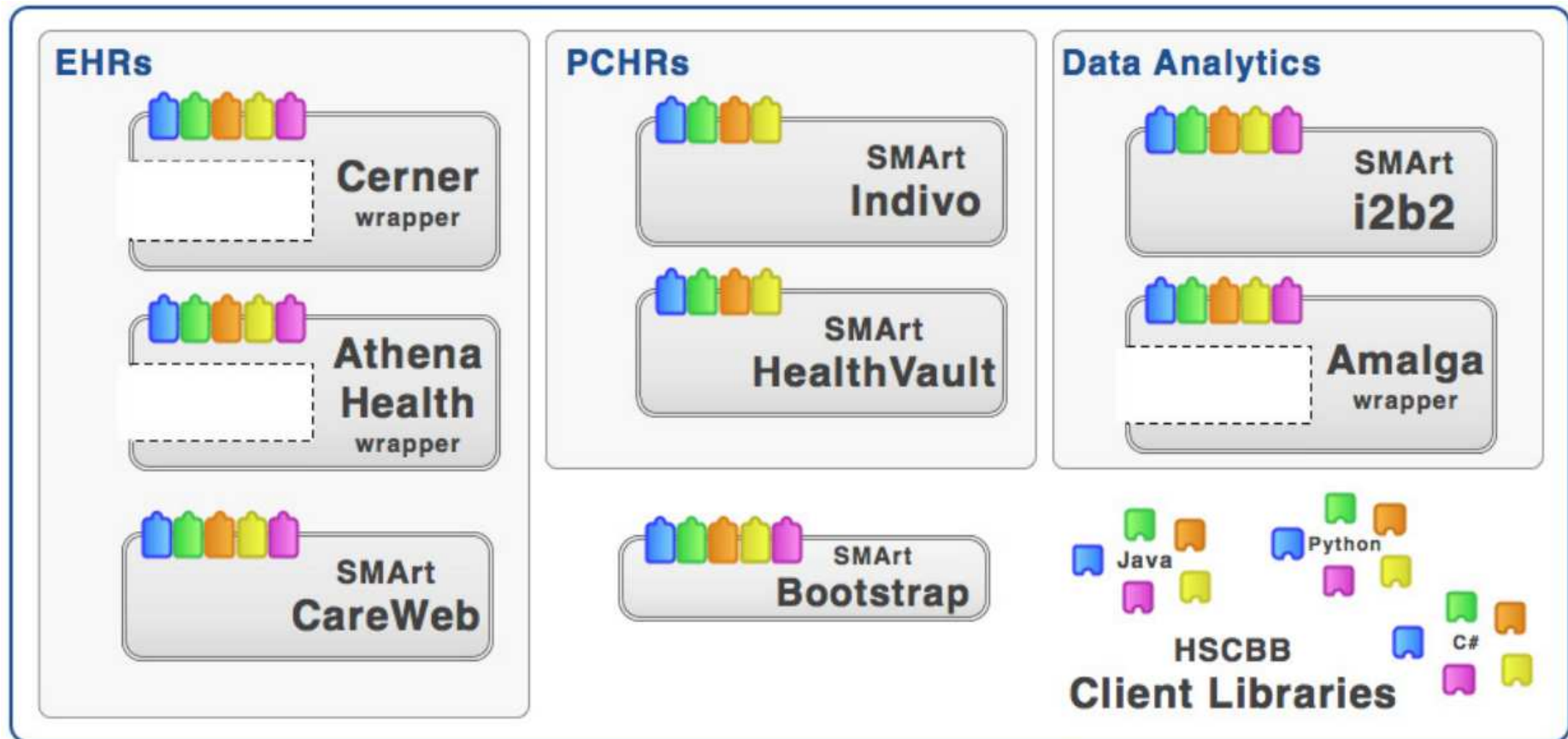
HTTP enables **content negotiation**, e.g. HTML, JSON



SMARt App Exchange



SMArt Platform Exchange



3 Open Source Systems to build on

- I2b2 Analytic Platform (NLM Funded)
- Indivo PCHR Platform (NLM and CDC Funded)
- CareWeb EMR



TimeLine

August 2010: Present Prototypes at 1st Users Meeting

December 2010: Release SMArt API specs

April 2011: Third party apps developed by our partners

April 2012: Public App Store Opens



Executive Committee

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PI, CoDirector

Ken Mandl

CoDirector, Chair Exec Committee

Rachel Ramoni

Executive Director

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Lead architect. CHIP, SMArt, Indivo

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