



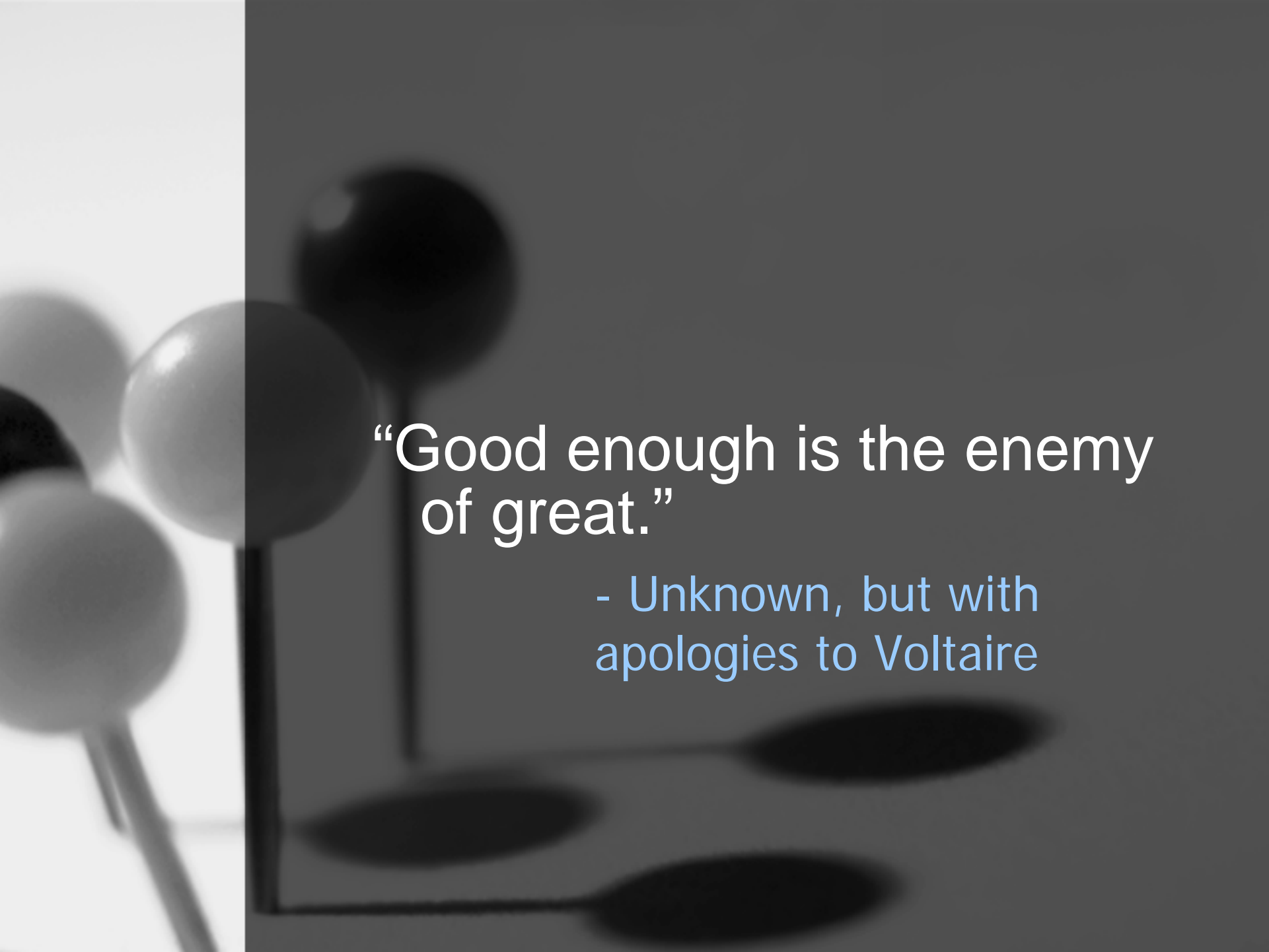
Interoperability & Healthcare Transformation

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HIMSS 09
Chicago

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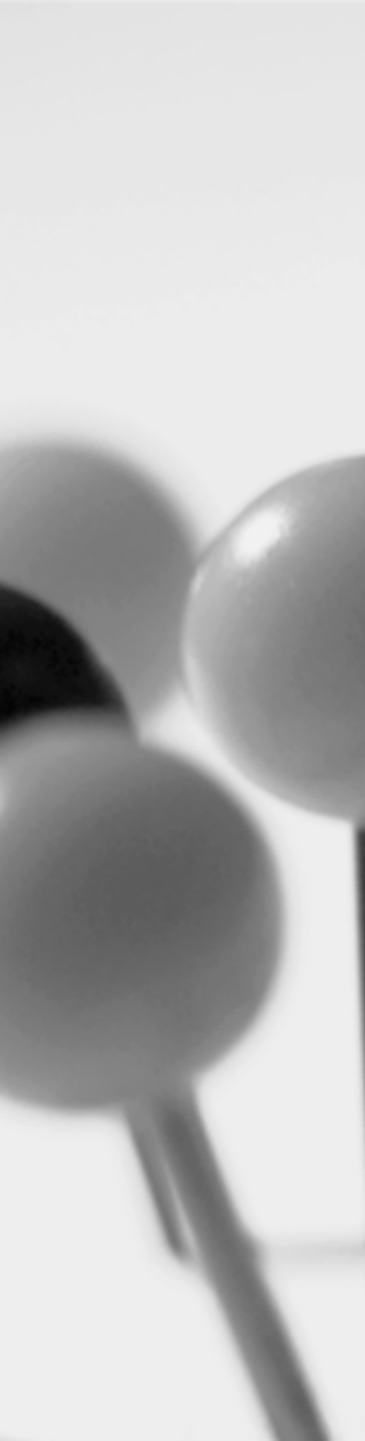
“Good enough is the enemy
of great.”

- Unknown, but with
apologies to Voltaire



HITECH & what I *know* about Standards Development

- Standards and standards development policies will be finalized by December 2009.
- Standards development will address areas of high priority, including quality measurement and decision support.
- Collaboration among SDOs will be one of the major requirements of ONC.

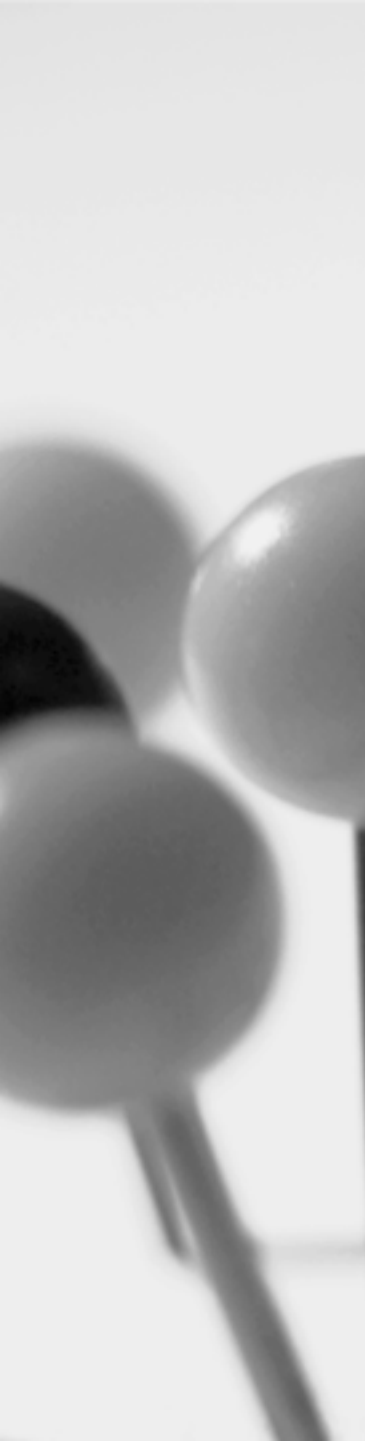


“If you can keep your head while
all about are losing theirs and
blaming it on you - perhaps you
have underestimated the
seriousness of the situation.”

- Unknown, with an apology
to Rudyard Kipling

HL7 in 1987

- It was easier when we were almost alone.
- Change Management is the toughest part of becoming effective.
- Collaboration is the most difficult way to achieve progress, but almost always the best.

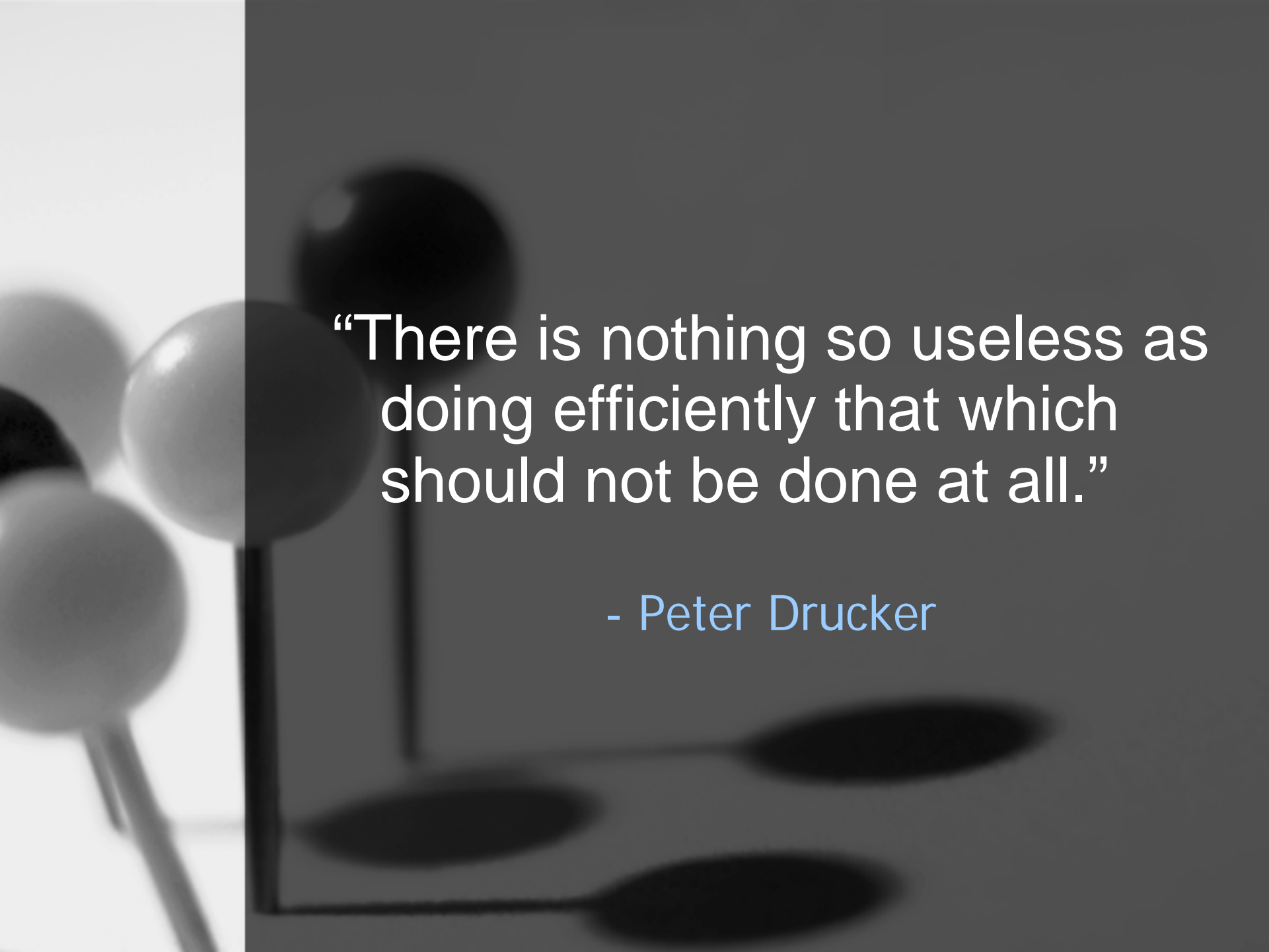


“Hofstadter's Law: The time and effort required to complete a project are always more than you expect, even when you take into account Hofstadter's Law.

- Not Hofstadter

HL7 in 1997

- HL7 promotes further evolution of the Reference Information Model (RIM) and of Version 3.
- Complexity breeds contempt.
- Our harshest critics become our best allies.



“There is nothing so useless as doing efficiently that which should not be done at all.”

- Peter Drucker

HL7 in 2009

- Congress introduces ARRA & HITECH
- Interoperability takes on a whole new meaning
- Our best allies bring reality to collaboration



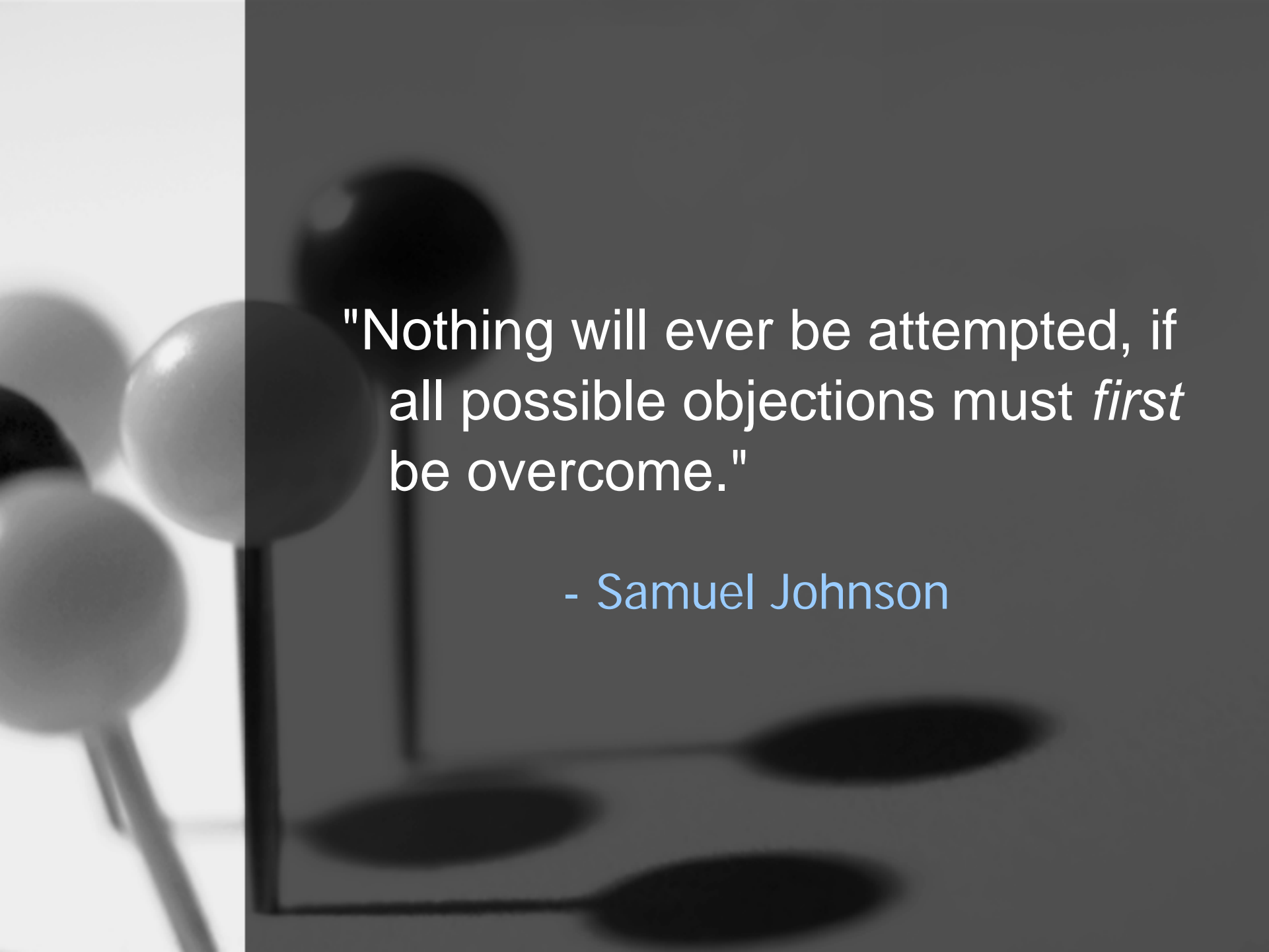
“How much easier it is to be
critical than to be correct.”

- Benjamin Disraeli



Collaboration breeds Interoperability

- Interoperability adds the dimension of re-use
- Standards development can no longer operate in a vacuum.
- And (almost) everyone says so.



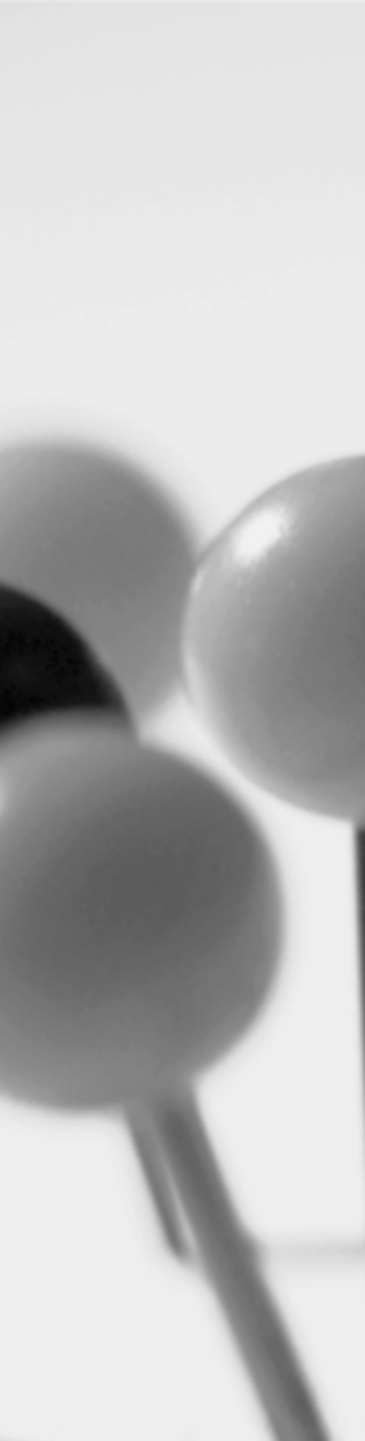
"Nothing will ever be attempted, if all possible objections must *first* be overcome."

- Samuel Johnson



Collaboration breeds Interoperability: Decision Support

- The *critical* element is driving EHR value and adoption
- Collaborators: CDSC & Morningside Consortium
- Objective: a unifying architecture and multiple specifications



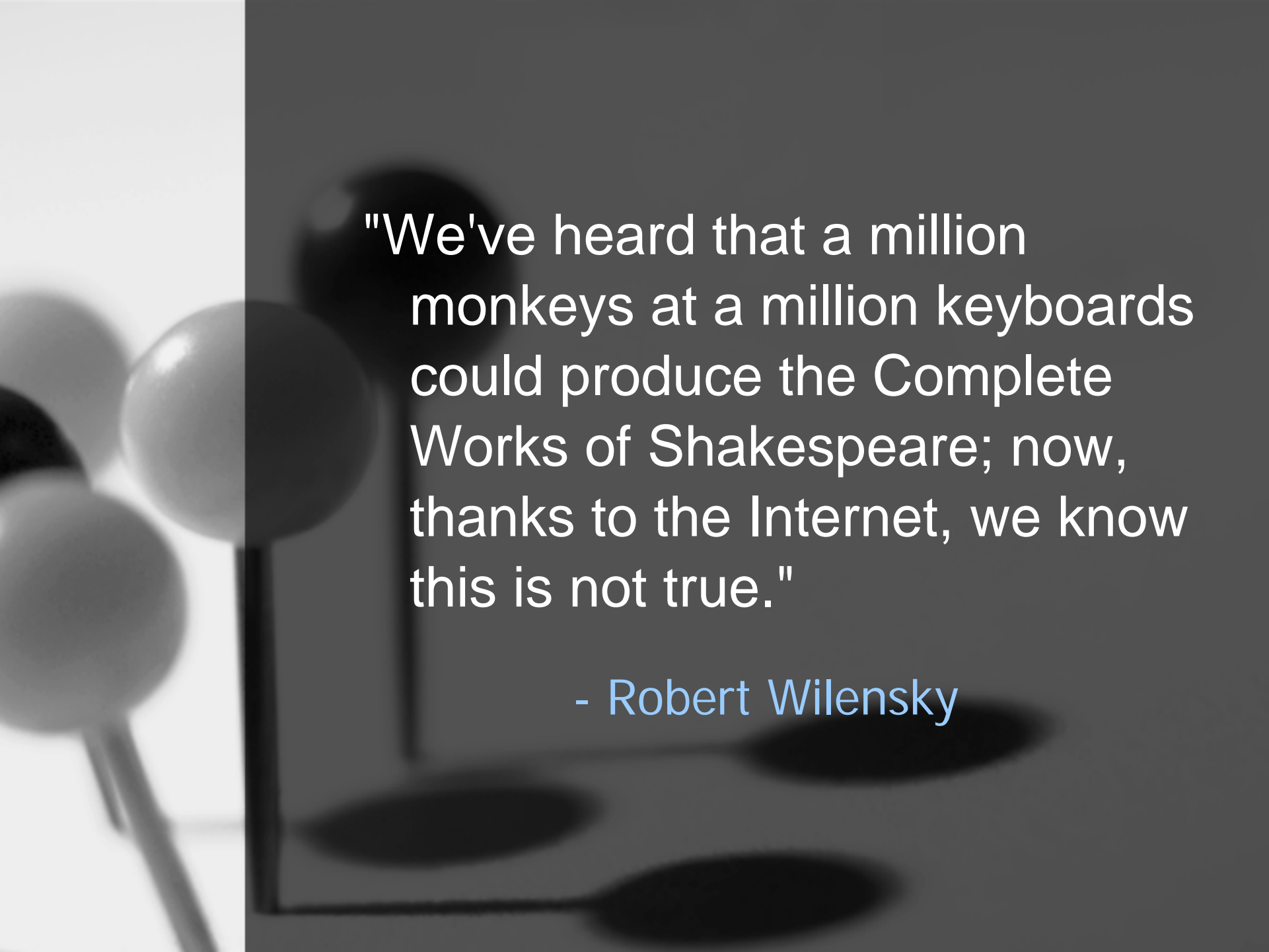
"If you put the federal government in charge of the Sahara Desert, in 5 years there'd be a shortage of sand."

- Milton Friedman



Collaboration breeds Interoperability: Quality

- Quality is more than metrics. Quality changes the care paradigm.
- Collaborators: National Quality Forum, PQRI, and the Quality Collaborative
- Objective: translating best practices, clinical guidelines into evidence-based medicine into actionable information



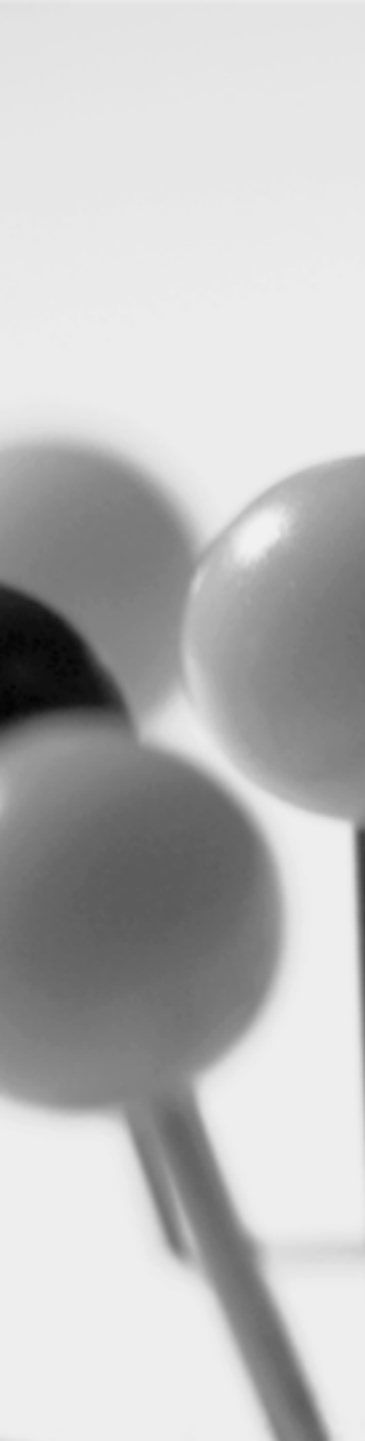
"We've heard that a million monkeys at a million keyboards could produce the Complete Works of Shakespeare; now, thanks to the Internet, we know this is not true."

- Robert Wilensky



Collaboration breeds Interoperability: Clinical Research

- Patient care and clinical research are not stand-alone entities
- Collaborators: CDISC, National Cancer Institute, FDA
- Vehicle: BRIDG Model
- Objective: seamless interchange of clinical and research data
- Big picture: Research informing patient care and patient care informing research



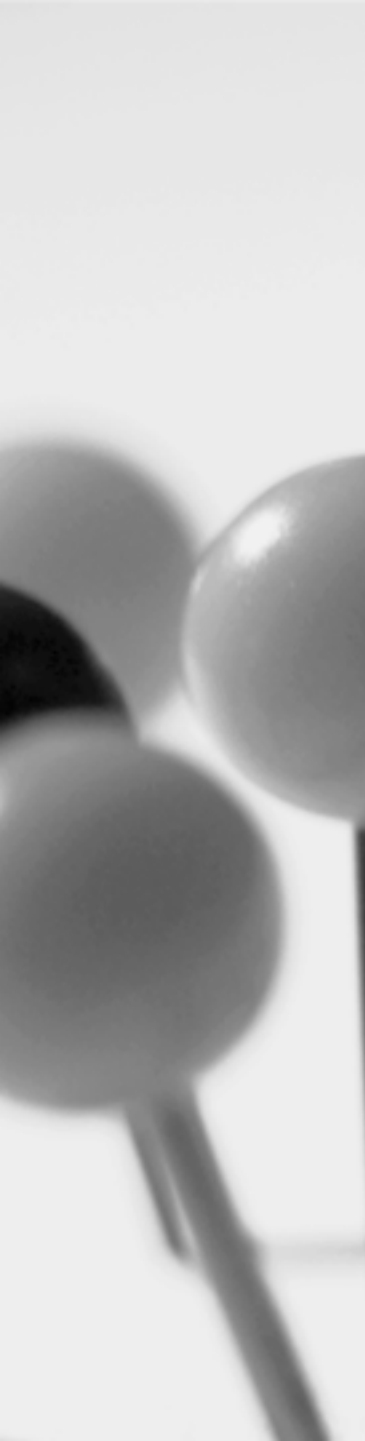
"The question of whether a computer can think is no more interesting than the question of whether a submarine can swim."

- Edgar Dijkstra



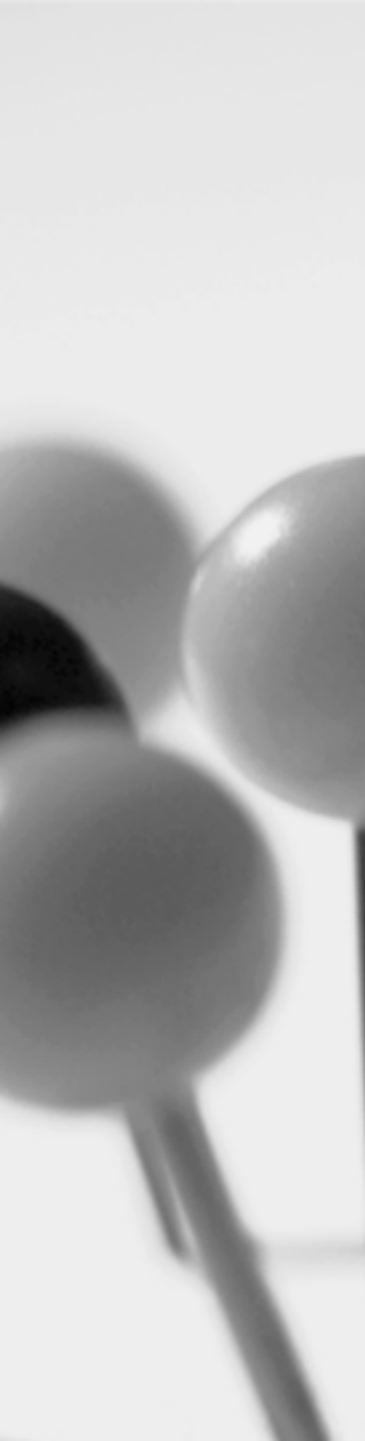
Collaboration breeds Interoperability: Biosurveillance

- Driver: Data exchange in real time.
Success of CDA.
- Collaborators: CDC
- Objective: bringing local data to a central warehouse & informing the local and regional Departments of Public Health



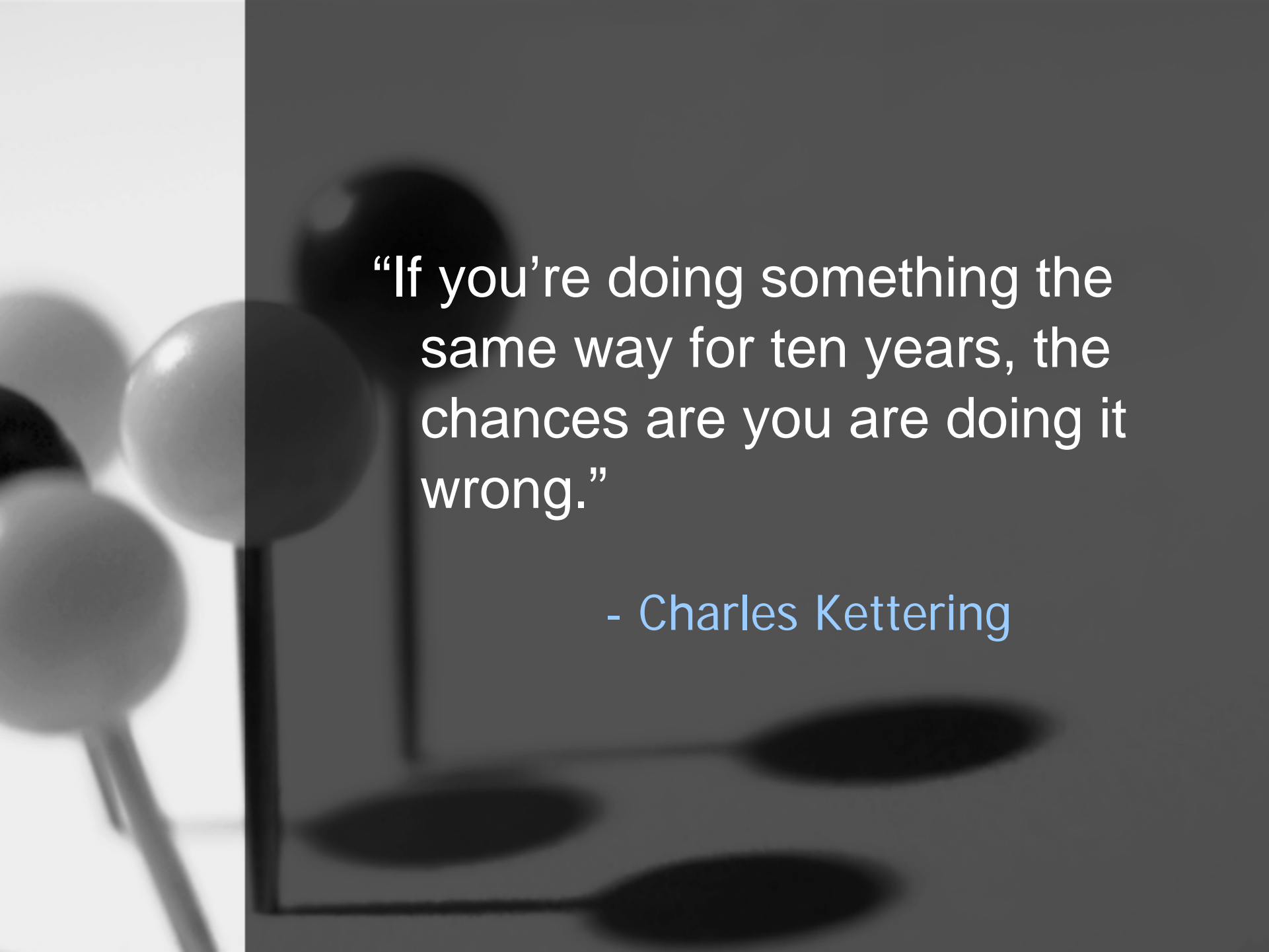
"There are two major products that come out of Berkeley: LSD and UNIX. We don't believe this to be a coincidence."

- Jeremy Andersen



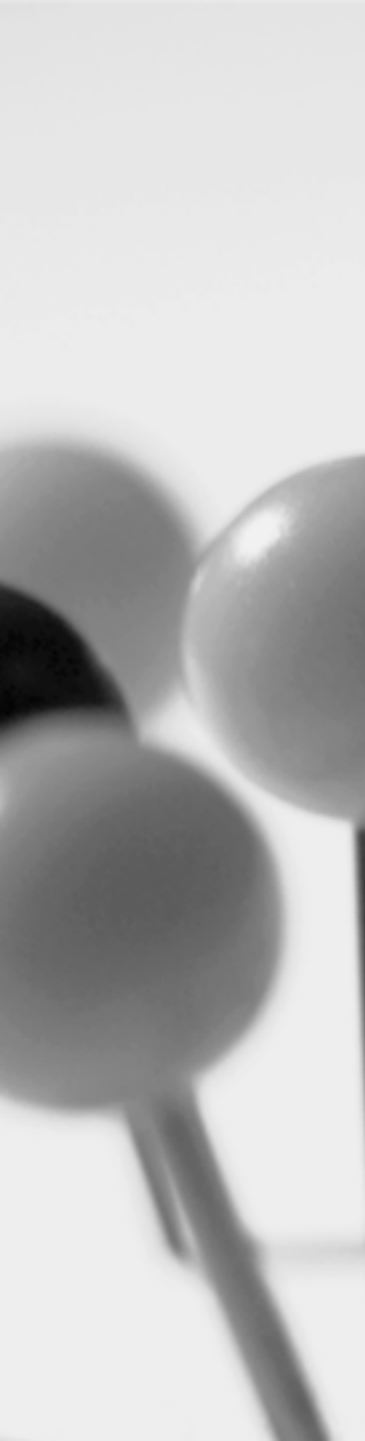
Collaboration breeds Interoperability: Internationalism

- Driver: Healthcare on a global stage
- Collaborators: Joint Initiative Council (ISO, CEN, CDISC, IHTSDO)
- Objective: enabling harmonization AND identifying and closing the gaps



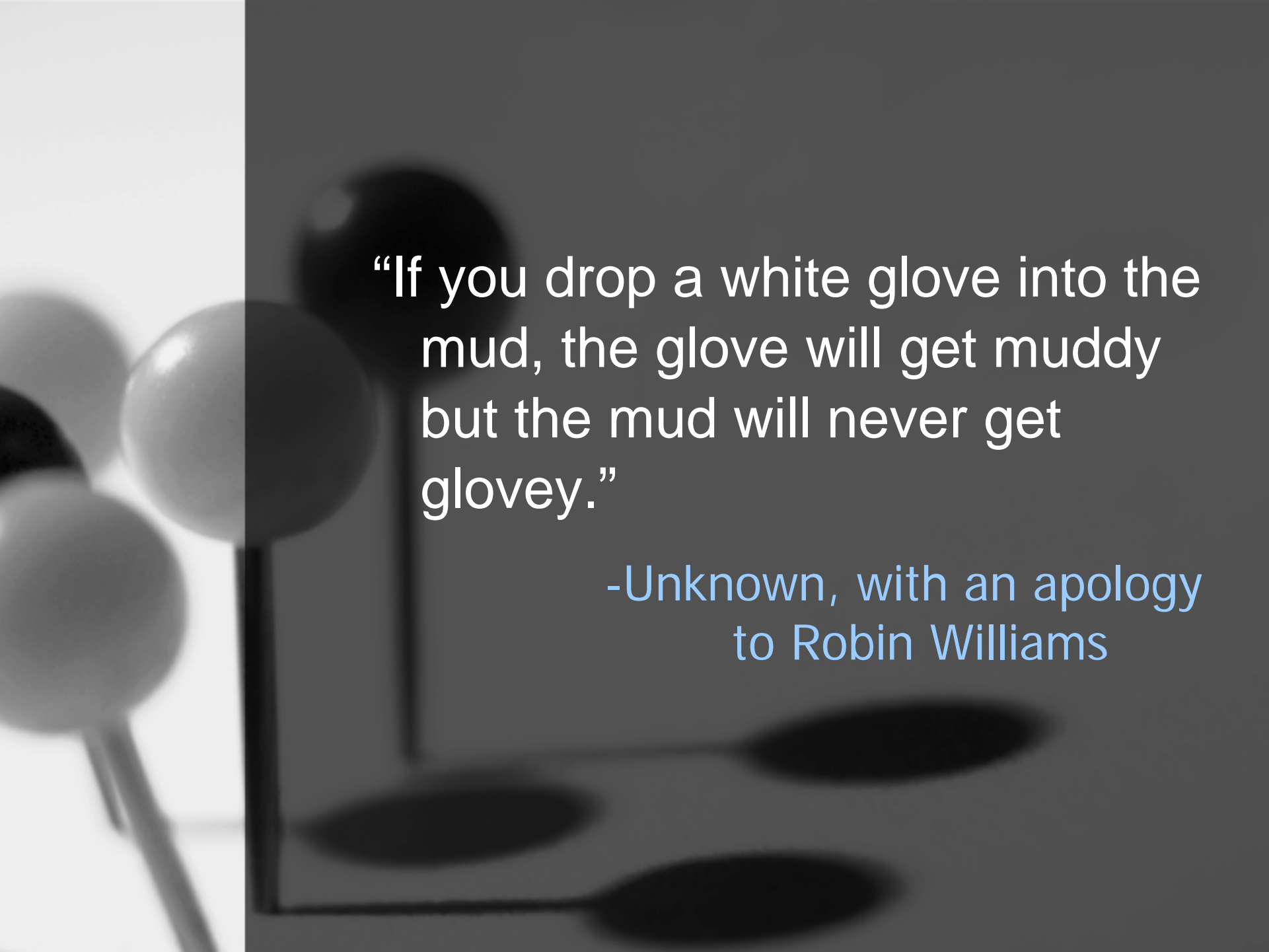
“If you’re doing something the same way for ten years, the chances are you are doing it wrong.”

- Charles Kettering



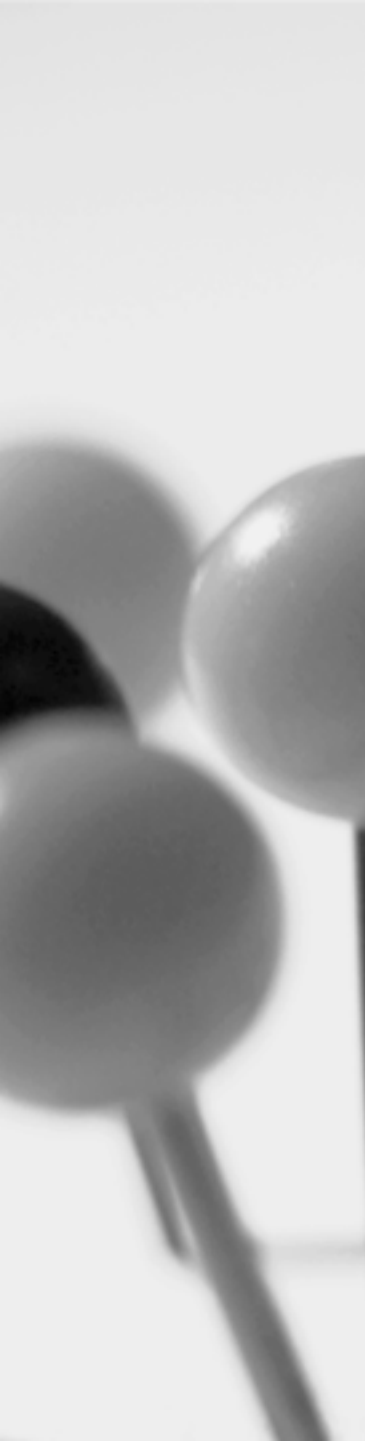
Collaboration breeds Interoperability: Healthcare Capacity Building

- Driver: Healthcare on a global stage
- Collaborators: WHO, AMIA, Rockefeller Foundation
- Objective: bringing standards development to the emerging nations



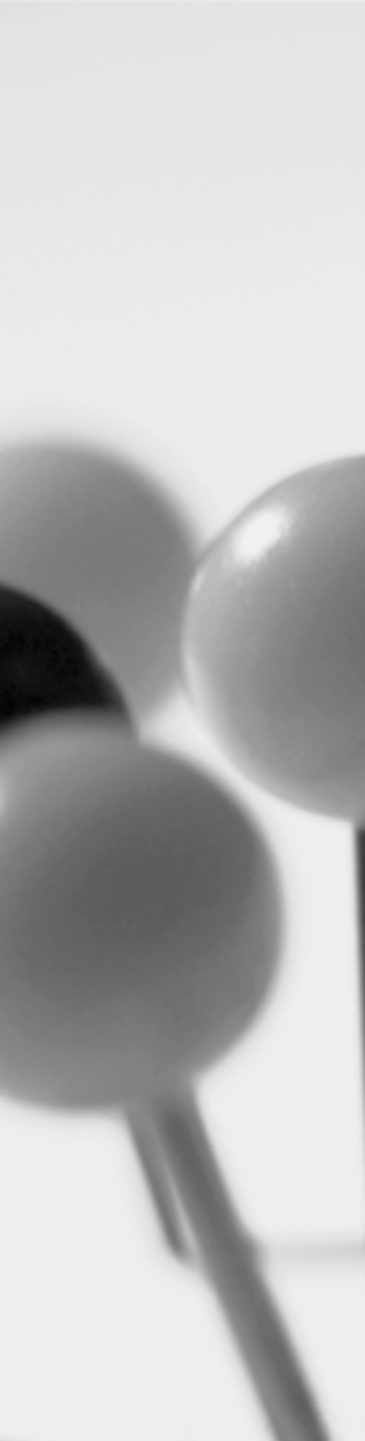
“If you drop a white glove into the mud, the glove will get muddy but the mud will never get glovey.”

-Unknown, with an apology
to Robin Williams



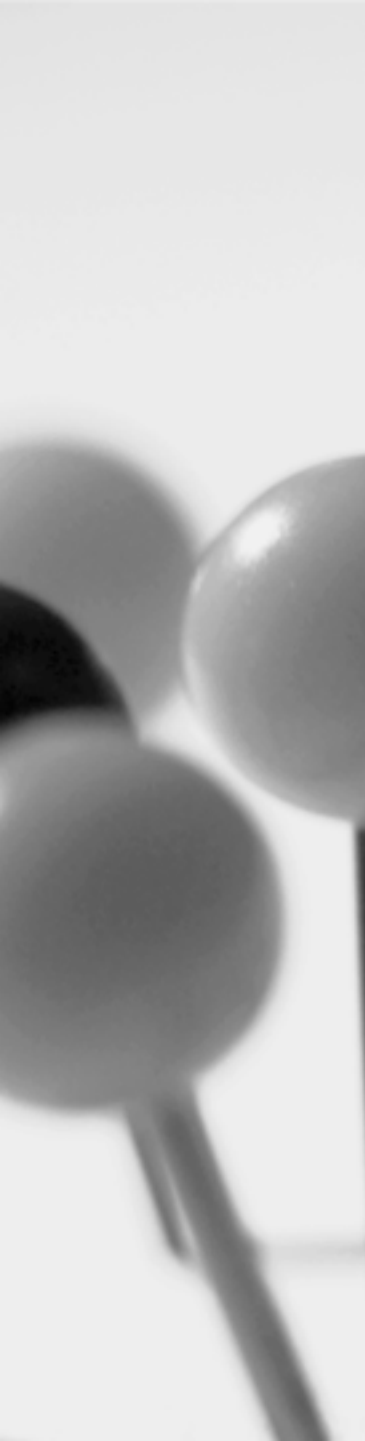
Collaboration breeds Interoperability: Pharmacovigilance

- Driver: Post-approval drug safety
- Collaborators: CDISC, FDA, EMEA, CEN
- Objectives: assuring that patient protection does not end at drug and device approval




“If you can't laugh at yourself, you
may be missing the joke of the
century.”

-Unknown, but not
Billy Crystal



Collaboration breeds Interoperability: Clinical Workflow

- Driver: Caregivers are often excluded from the very processes for which the solutions are developed
- Collaborators: AHRQ, Medical and other Specialty Societies, and the Clinical Interoperability Council
- Objective: definition of the needs of the clinician relating to workflow, terminology, and business needs



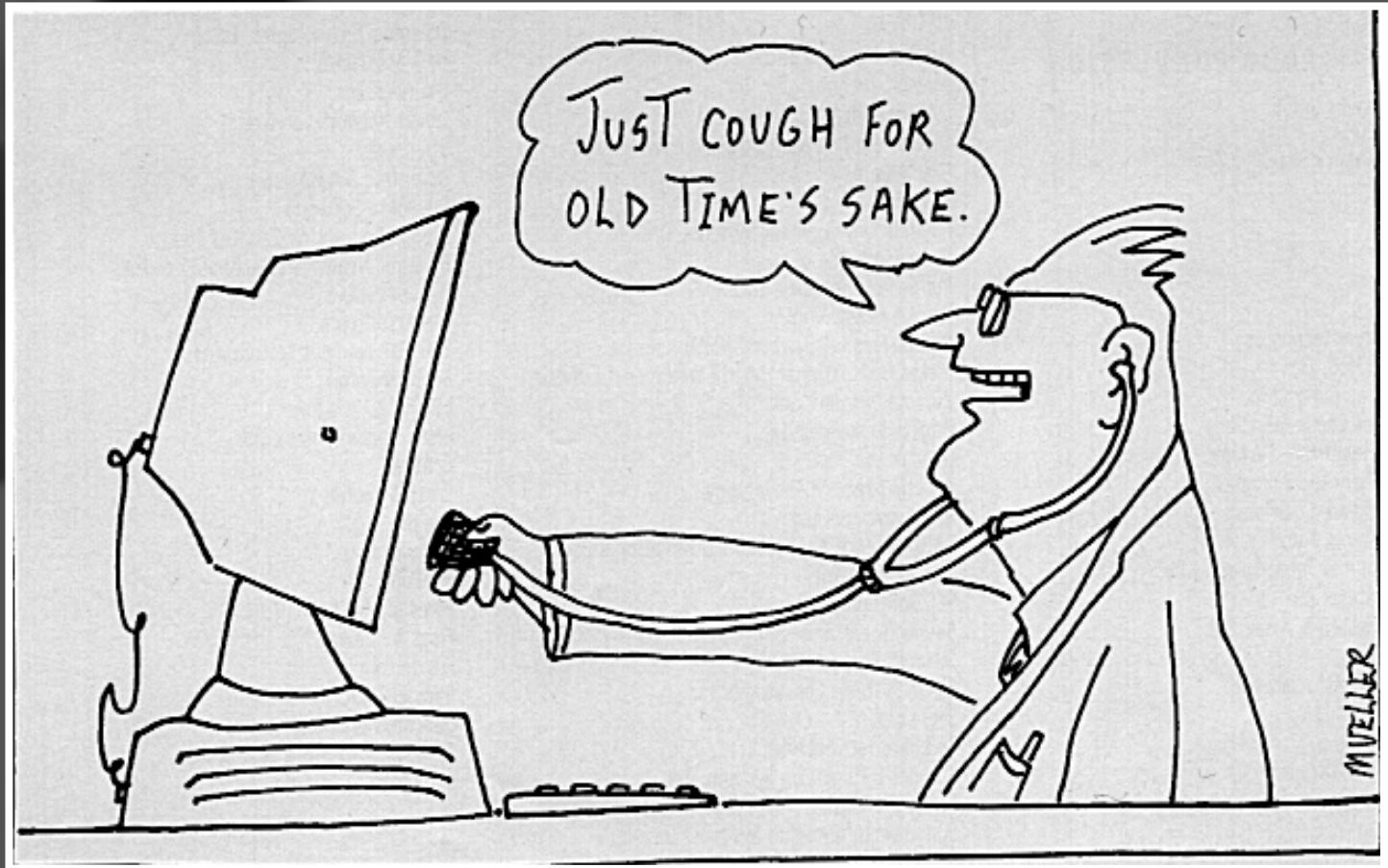
“If you can't be a good example,
then you'll just have to serve as
a horrible warning.”

- Unknown, but no less
verifiable

SDO Charter Organization (2009)

- The emerging standard for collaboration
- SDOs: HL7, NCPDP, ASC X12, CDISC, ASTM, (WEDI)
- Formal Observers: ANSI, FHA, HITSP, ONC, SSA, IHE, ISO US TAG

Thanks



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