

# Fostering Innovation Through Appropriate Government Regulation

Marc Probst, CIO and VP



# Intermountain Healthcare: An Integrated Health System



  
Intermountain<sup>®</sup>  
Healthcare

1975

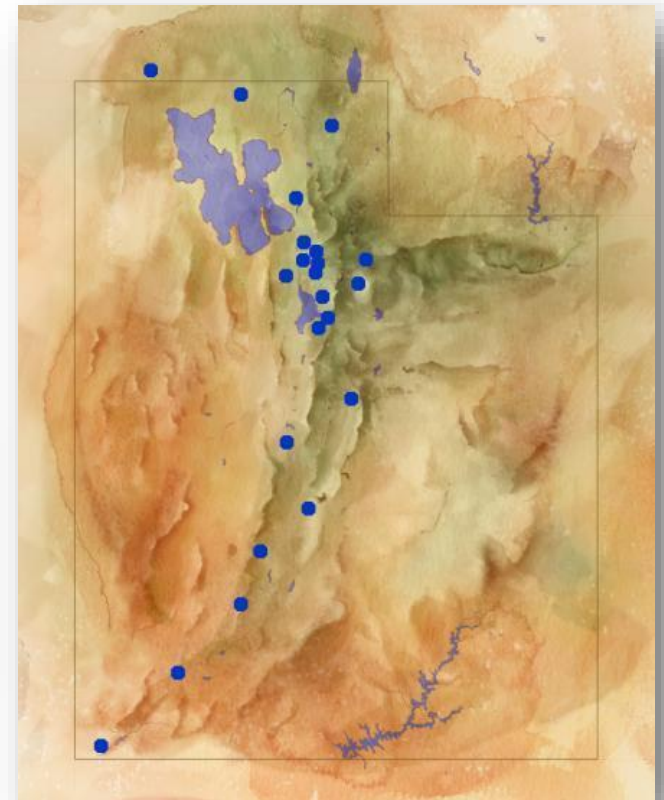


selecthealth  
1983



  
Intermountain<sup>®</sup>  
Medical Group

1994



# Information System Organization

- \$200+ million annual operating budget (3.8% total operating cost)
- 3 EMR systems
- 60,000 phones
- 1100+ FTE
- 65,000 network connections to devices
- 2 data centers
- >2,600 applications
- >1,400 servers
- 90% of 90,000 daily emails blocked as SPAM
- 21,000 monthly calls to Front Line Support
- >25,000 personal computers
- **500+ projects**

# Homer Warner Center for Informatics Research

Promote collaboration to advance discoveries in medical informatics research

- Centralized 55 employees
- 10,000 sq ft space
- > \$10 million in grants
- Current projects include:
  - Sharp grant projects
  - Statewide MPI
  - Beacon communities
  - Commercial strategies



# The Complex I.S. Environment

## Environmental Factors

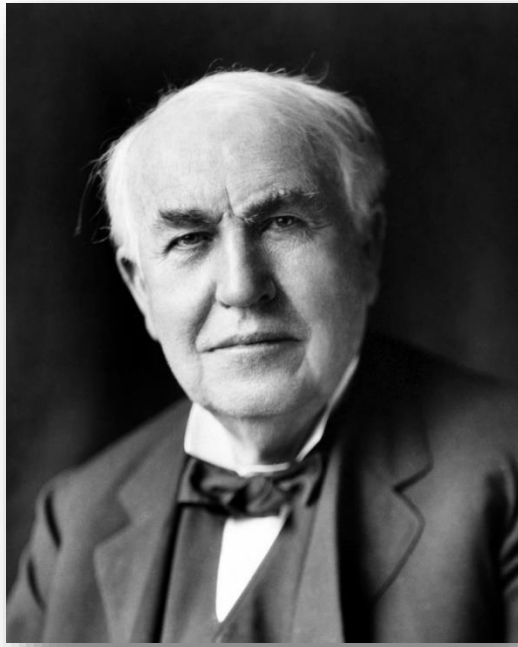
- Rapidly changing technologies
- Increasing expectations
- Knowledgeable users
- National requirements  
(e.g., ICD-10, Meaningful Use)



A responsibility  
to innovate

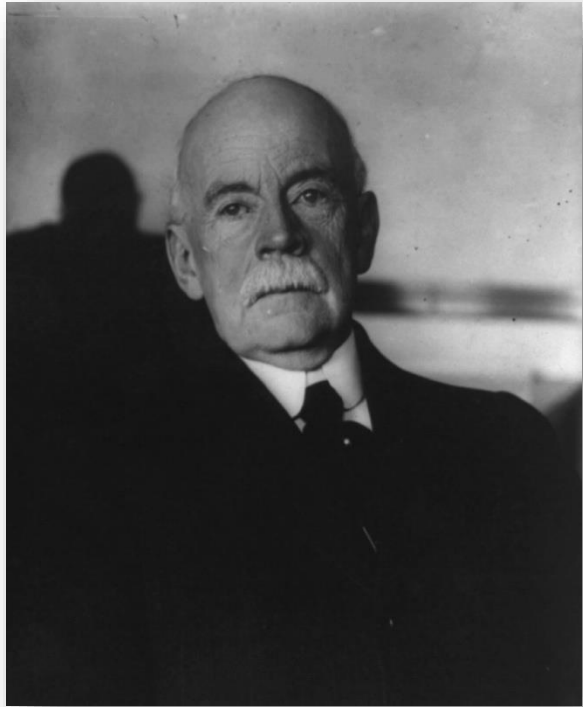


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“There’s a way to do it better – find it.”

-Thomas Edison



“Everything that can be  
invented has been  
invented.”

-Charles H. Duell, **Director of  
US Patent Office, 1899**



“There is no likelihood  
man can ever tap the  
power of the atom.”

-Robert Millikan, **Nobel  
Prize in Physics, 1923**



“The horse is here today,  
but the automobile is only  
a novelty – a fad.”

-President of Michigan Savings  
Bank advising [against investing](#)  
in the Ford Motor Company



“Video won’t be able to hold on to any market it captures after the first six months.”

-Daryl F. Zanuck, 20<sup>th</sup> Century Fox, commenting on television in 1946



“What use could the company make of an electric toy?”

-Western Union, when it turned down rights to the telephone in 1878



“Who the hell wants to hear actors talk?”

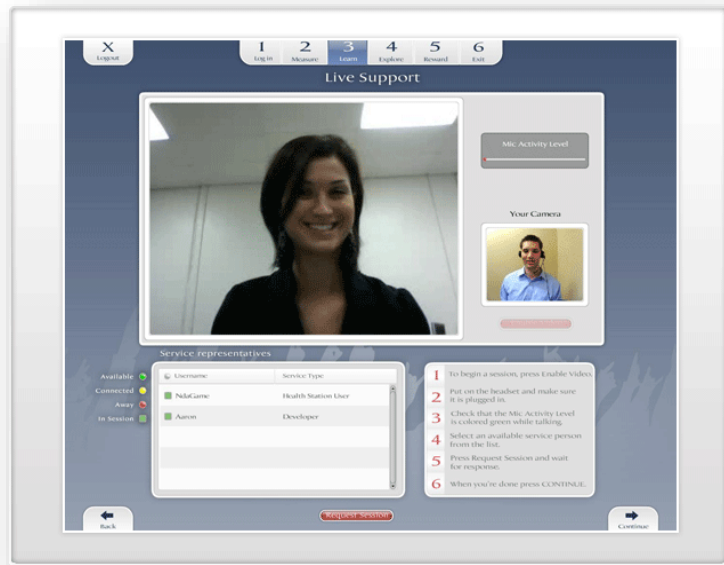
-Harry M. Warner, Warner Bros Pictures, 1927

“When all think alike, then  
no one is thinking.”

-Walter Lippman

Imagine

Your daughter is in Fiji, has a fever of 104 degrees, and is a type II diabetic. She needs to see your family physician.



# Transforming Healthcare

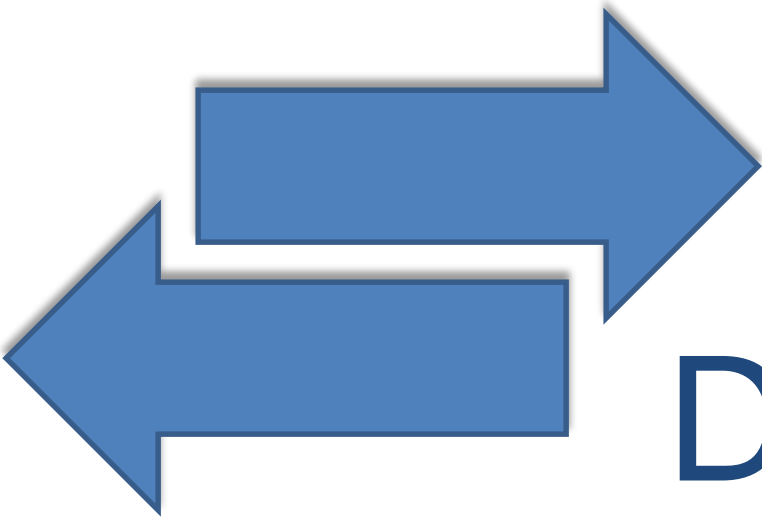
# TeleHealth

Your father from Pennsylvania,  
who is being treated at a  
Geisinger clinic for several  
chronic conditions, suddenly  
falls ill while skiing in Park City,  
Utah.

Transforming Healthcare

**Ubiquitous**

**Data Exchange**



Blood sugar management of inpatients improves outcomes by 60% and the tray the food is delivered on can increase accuracy of a patient's next dose of insulin by 80%



Transforming Healthcare

# Smart Tray

You need a specifically shaped attachment for your otoscope to properly assess the condition of an abnormal ear canal in a down syndrome baby.



Transforming Healthcare

# 3D Printing

A physician in Delhi, India develops treatment for esophageal cancer, which improves the chance of survival by 6x, and you show up in a hospital in Salt Lake City, Utah with the same diagnosis



Transforming Healthcare

# Data Standards

"The successful use of competition does not preclude some types of government interference.

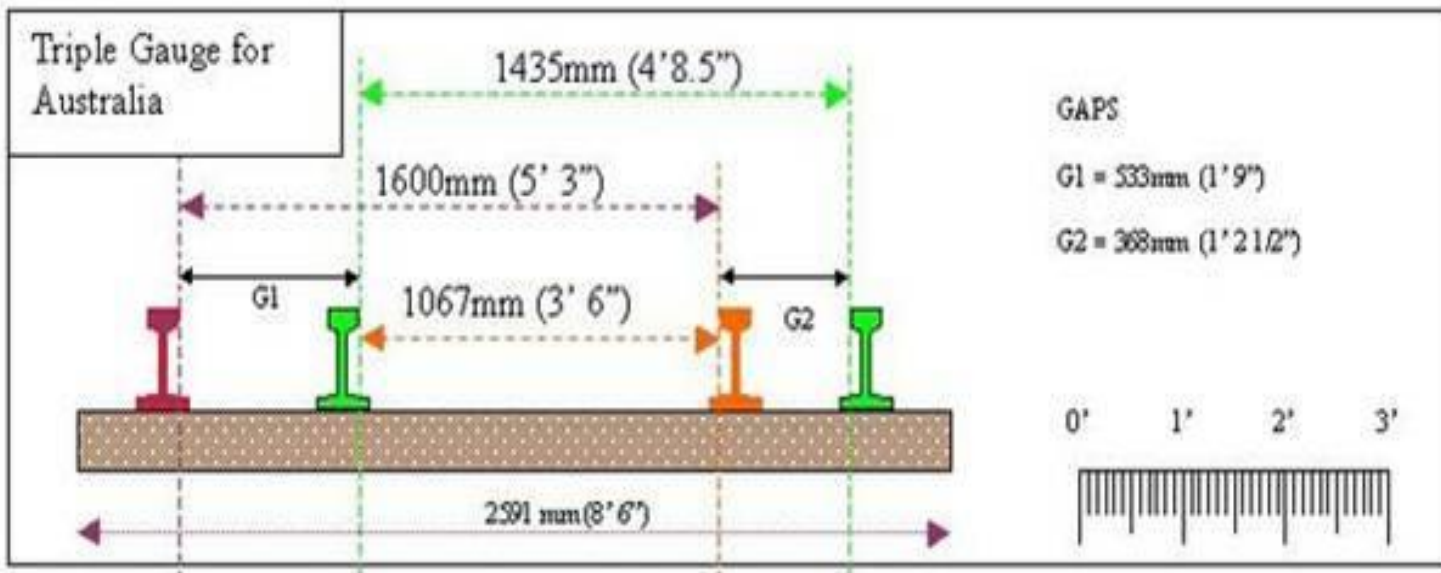
To create conditions in which competition will be as effective as possible, to prevent fraud and deception, to break up monopolies - these tasks provide a wide and unquestioned field for state activity."

-- Friedrich August Von Hayek

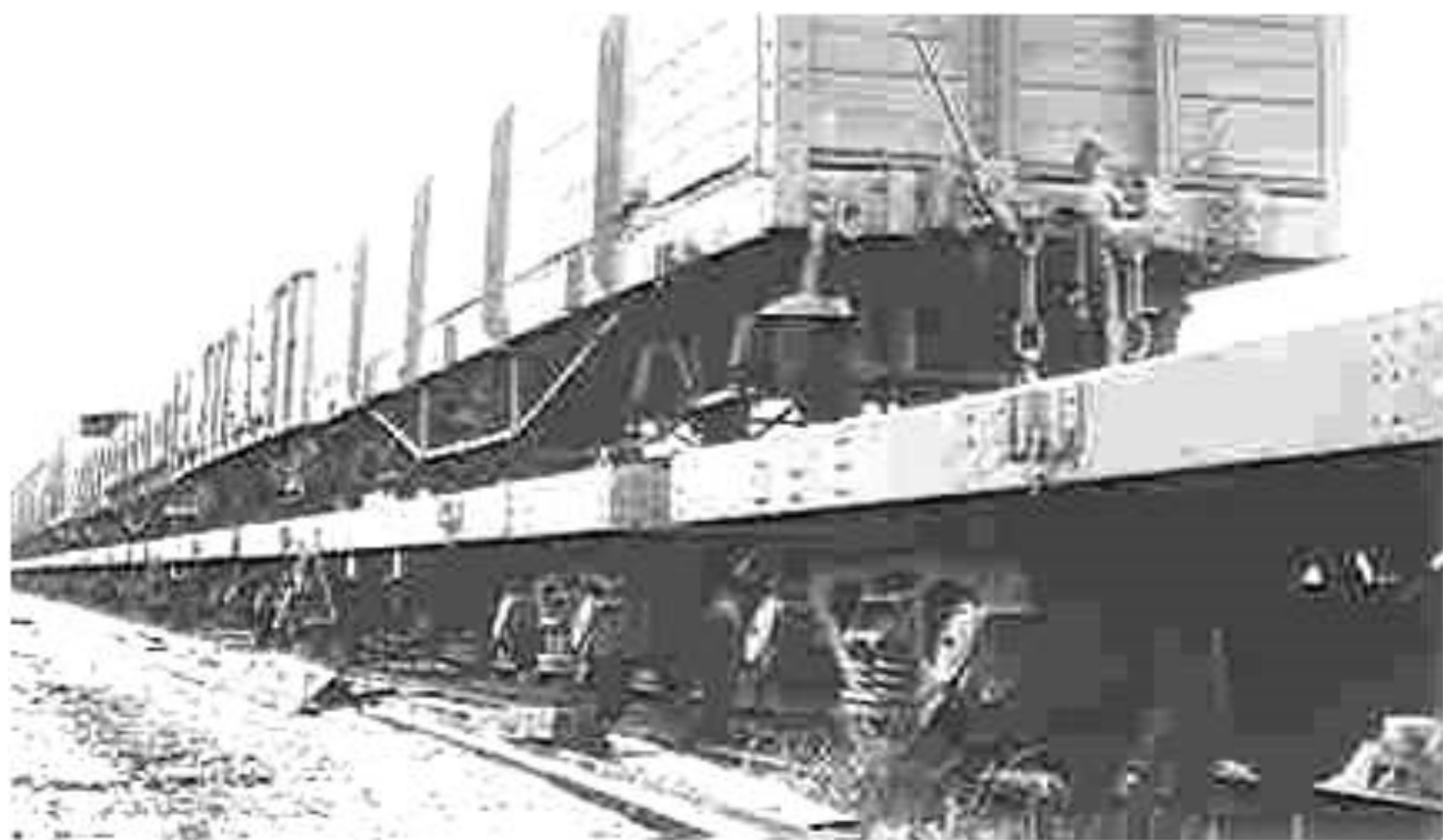


Why data  
standards

# Rail Gauge in Australia



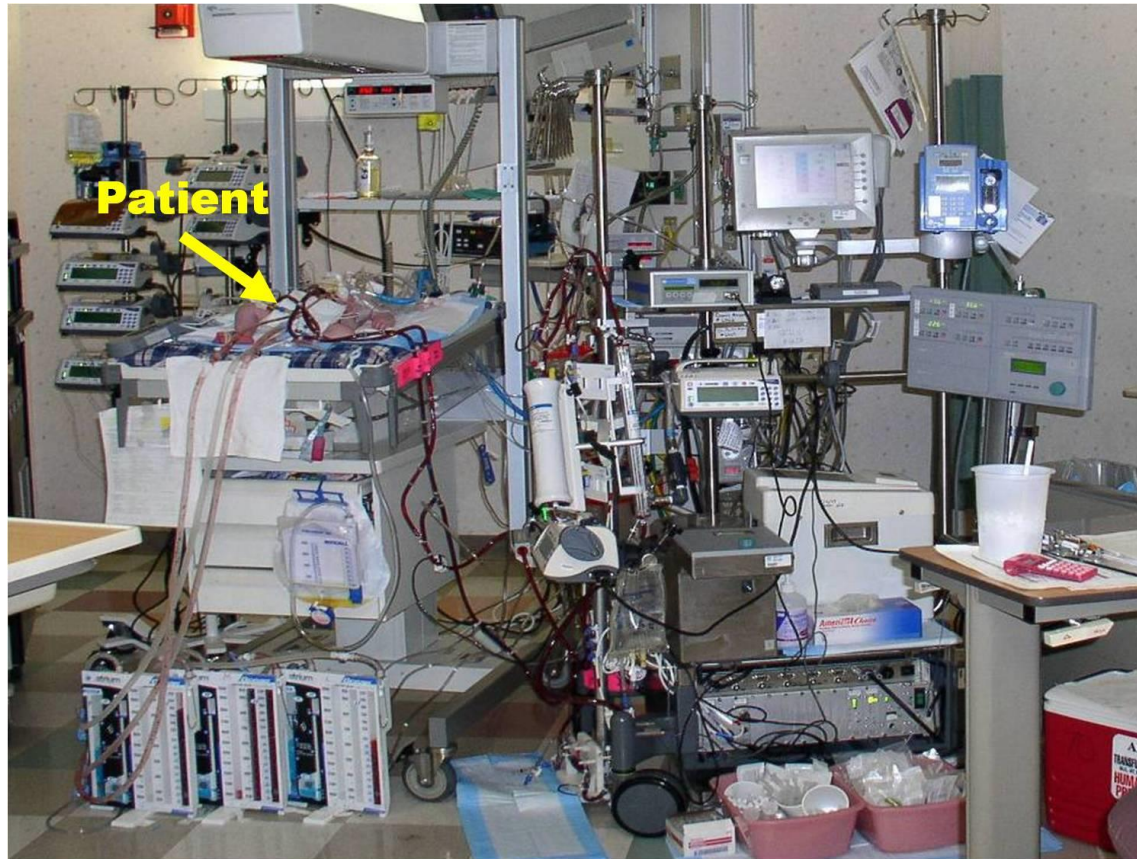
Variations in gauge standards have been a problem for over a hundred years





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# Healthcare's Standardization Problem



# Creating a New Paradigm

Health Data Dictionary  
Clinical Element Models  
Decision Support



Real success is not achieving greatness...rather, real success is achieving greatness that benefits many. Real success raises all ships.

Intermountain Healthcare

Responsibility to

[Innovate]