

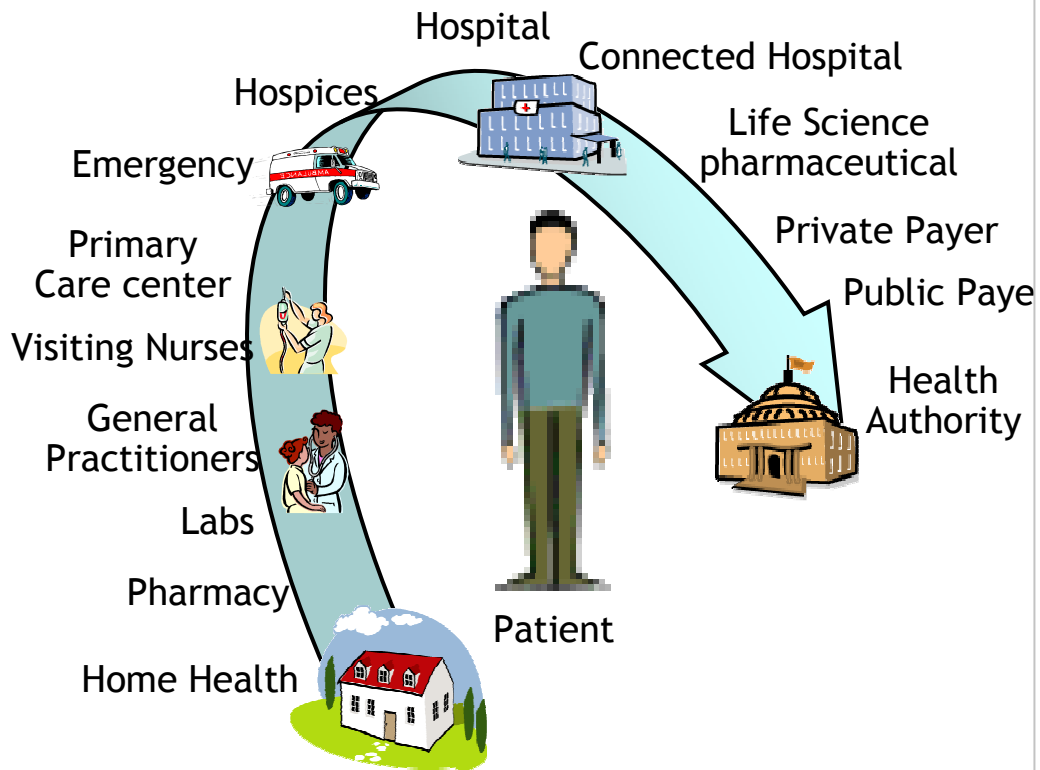
# The Connected Hospital



Jim White, VP Connected Hospital



# The Connected Hospital and the Healthcare Eco-system

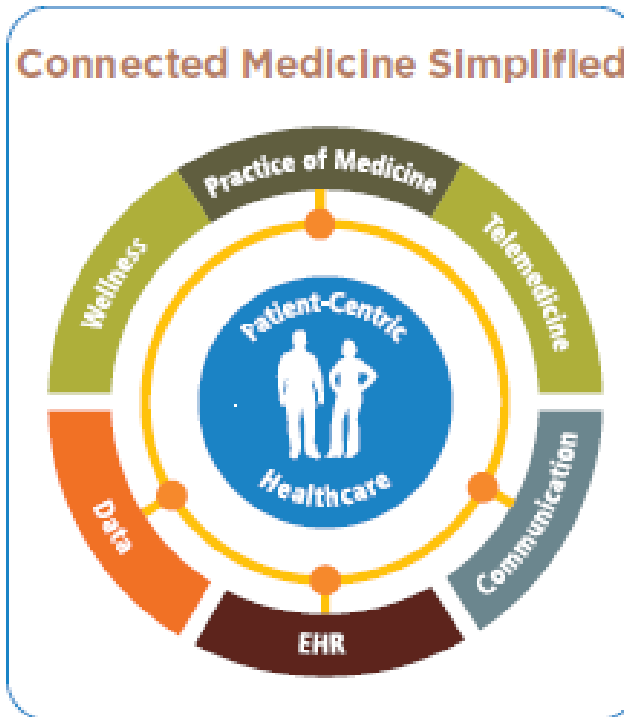


## Hospitals & Connected Hospitals

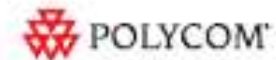
- Payers
- Governments
- Home Health/Hospices
- Hospitals & Hospital Clusters (Several Interconnected hospitals)
- Hospital Connected with Broader eco-system
  - Tele-med hub for region
  - Links to State & Local gvt
  - Managed regional health net

# Founding partner of the Center for Connected Medicine

## Founding Partners



## Strategic Partners



Visitors to the Center will experience the possibilities of an interconnected healthcare system that shares information among healthcare providers, institutions, patients and equipment

## Bell Labs: Research Driven Innovation

**1000** Scientists and Researchers

Global Reach with Presence in **10** Countries

Collaborations with **300+** Academic Institutions

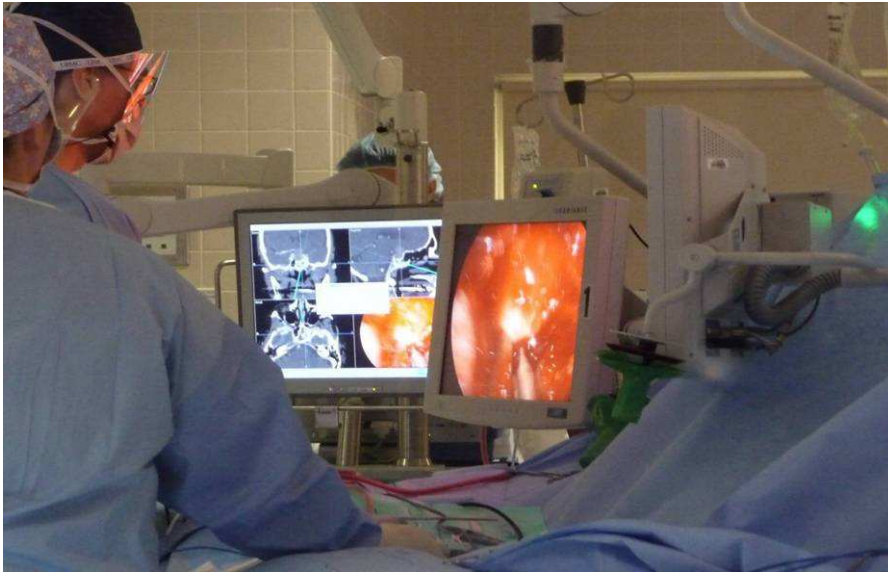


## Research

in mathematics, physical sciences, nanotechnology,  
convergence and computer science.

## Healthcare Innovation with Customers Smart Suite Knowledge Sharing System

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Smart Suite is a UPMC/Alcatel-Lucent  
Joint Venture

Information Driven Interventions  
require new tools to support **Mastery,**  
**Mentoring and Managing** these  
environments



Play Smart Suite Video: Innovation example leveraging Bell Labs to use connectivity technology to address physician challenges with information driven interventions

# The Leading Supplier to the U.S. Communications Industry

## Leading Connectivity Transformations for Carriers

- #1 in Broadband Access (DSL & GPON)
- #1 in Optics (Terrestrial and Submarine)
- Among the leaders in Wireless, telephony and IP/MPLS Service Edge Routers
- Innovations Leadership and Strong R&D Focus (Budget - \$3.2B)
- Complex Integration and solution delivery are core competencies
- Global sales, development and maintenance presence



# A leader in delivering business critical solutions

## Education



## Government



## Hospitality



## Energy and Utilities



## Transportation



## Healthcare



## Finance



## Are You Prepared to Address the Challenges of Mobilizing Staff ?

### Customer Considerations

- Do you have a need for real time information & applications at the point of care?
- Do you have multiple wireless networks & devices that are expensive to maintain?
- What communications systems do you have today (wired and wireless)? What are your fixed & mobile communications expenses?
- Do you have problems with real-time communication with staff?
- Do you need help developing a technology roadmap?



Ubiquitous Access to Information & Applications At the Point of Care



# Addressing the Connectivity Crisis in healthcare

## Connected Hospitals, improving business & clinical outcomes

### Challenges

#### Digitization of Everything

EHRs, PACS, the TV studio in the OR:  
is the network ready?

#### Resource Scarcity

Specialization of people and tools  
requires effective sharing, remote care

#### Multiple sites, disjoint communications

Mobile staff and patients need the  
right information in the right place

### Connected Hospital Characteristics

#### Ubiquitous Connectivity

Blanket coverage for people and devices  
throughout all facilities, reliable and secure

#### Real-time everywhere communications

Speak to experts when and where needed,  
on any device

#### Application-aware networking

Performance matched to the needs of the  
facility

### Outcomes

#### Shorter treatment cycles

Decisions happen faster when healthcare  
teams can communicate effortlessly

#### Protection of clinical investments

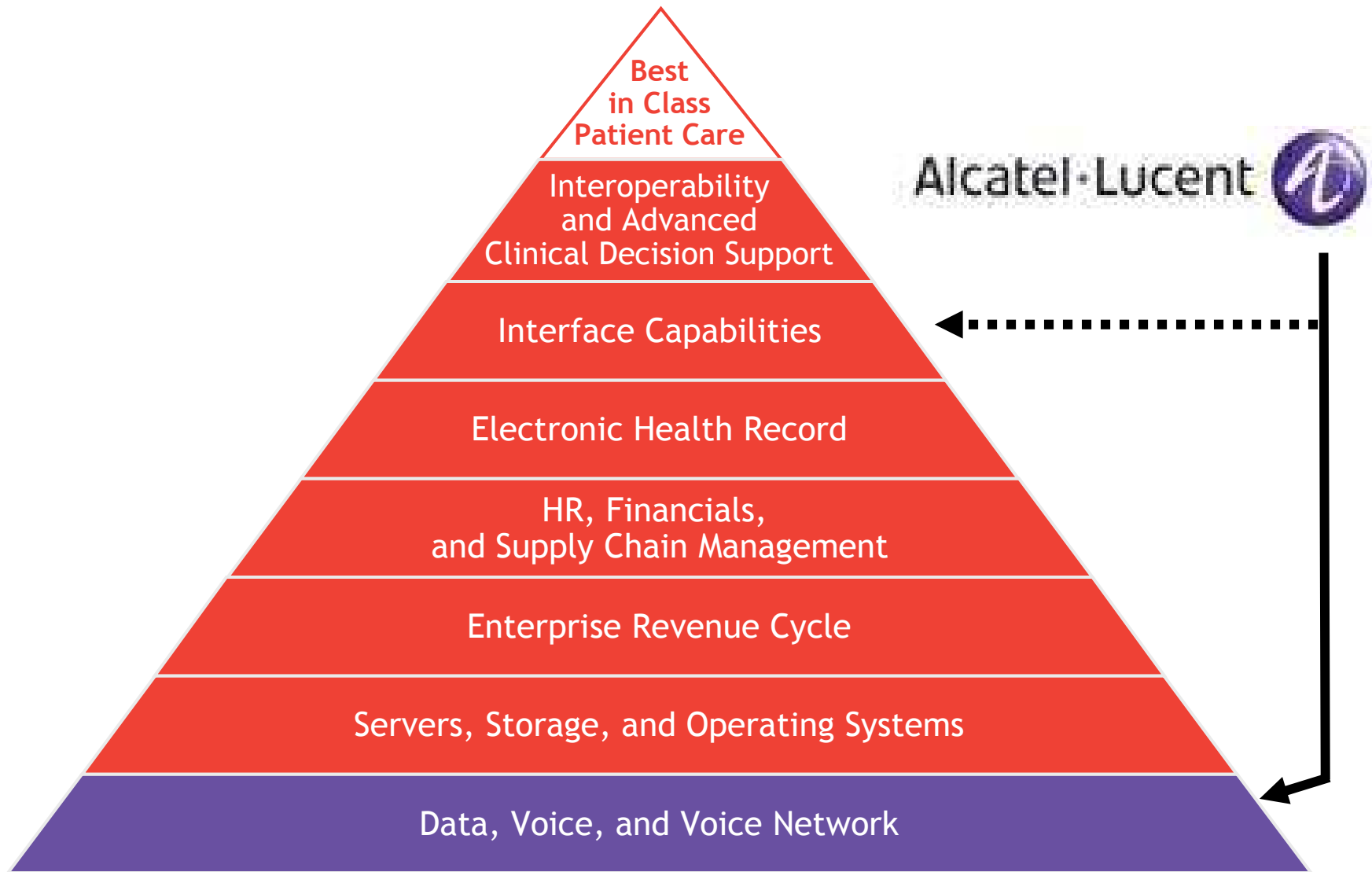
Digital assets and workflows are valuable only  
when they are appropriately accessible

#### Satisfied and Loyal Staff

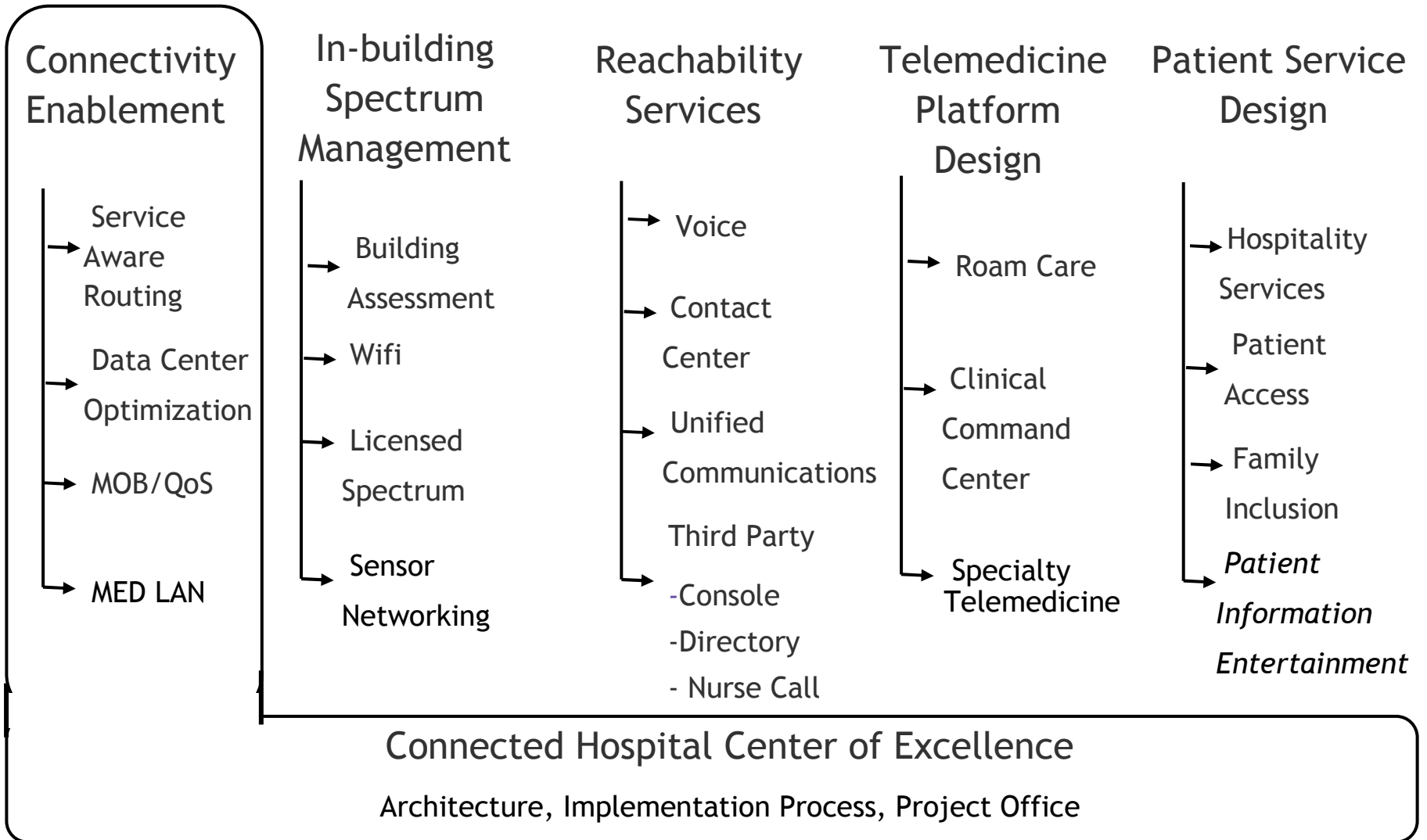
Effortless communications allow healthcare  
providers to focus on their passion

**Connected Hospitals recognize communications play an integral part in patient care**

# Strategy for Connected Hospital



# Engaging customers with the Connected Hospital Reference Model



A photograph of a surgical team in an operating room. A surgeon in blue scrubs is seen from behind, looking at a patient on the table. Several monitors are visible: one at the top right shows a grid of data, two in the center show vital signs and a video call with a doctor, and another at the bottom right shows an anatomical image. The room is lit with bright surgical lamps. Colorful light trails in blue, yellow, and red are overlaid on the image.

[www.alcatel-lucent.com/healthcare](http://www.alcatel-lucent.com/healthcare)