# Our strategy to create the future of healthcare

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# TRENDS & CHALLENGES

# Clinicians are in data overload
**Overwhelming amounts of data slows patient care**

# Fewer caregivers to treat patients

**Staffing shortages mean less time with patients**

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# Hospital acquired infections are on the rise

**And with them increased costs to the hospital**

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# Hospitals need to do more with less

**Pressure to bring down costs comes with increased expectations**
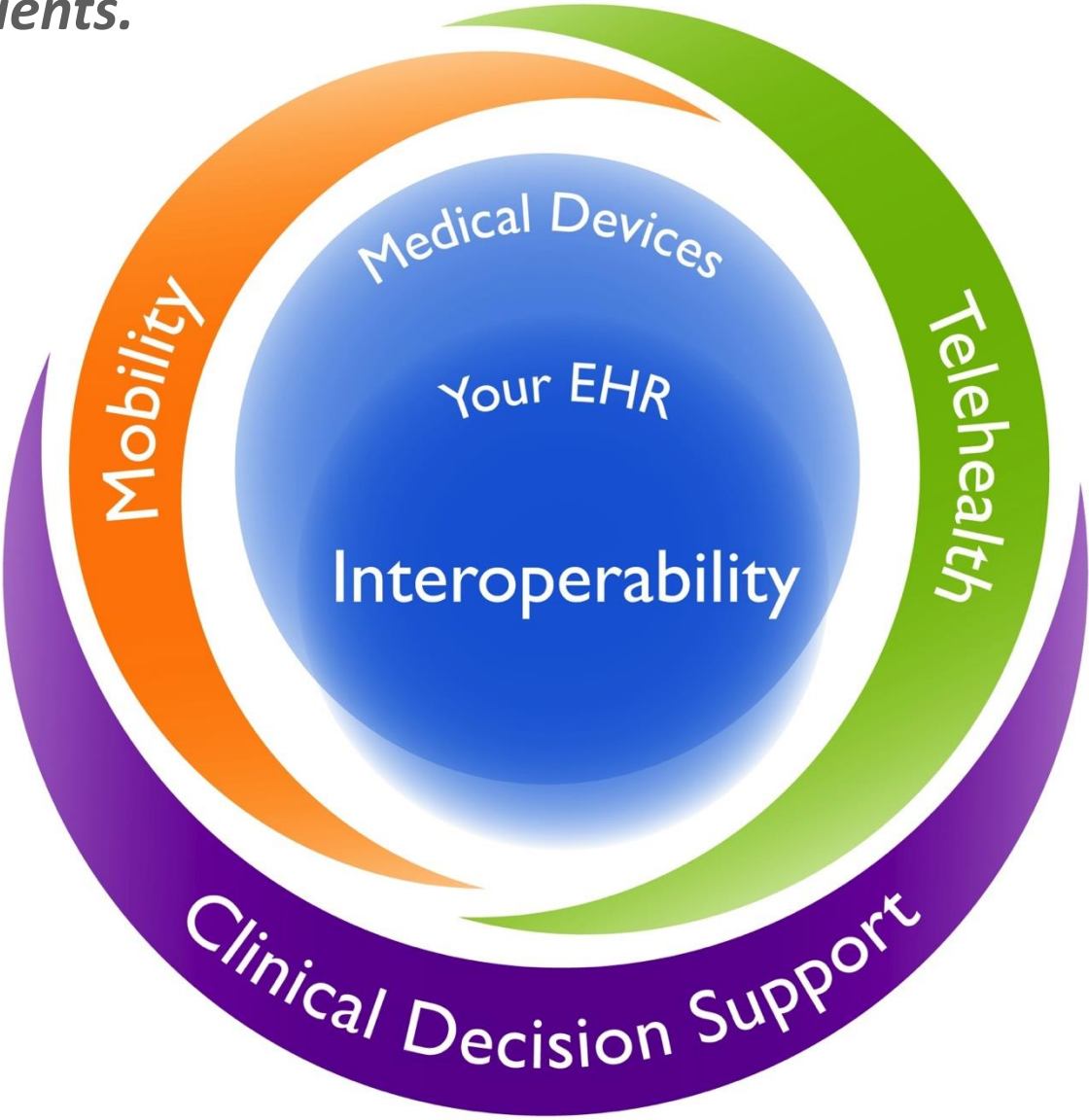
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# Hospitals are seeking less invasive solutions

**Leading to lower infection rates, improved outcomes, and money saved**

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# Clinical IT@work
*Solutions that touch patients.*
*And transform care.*

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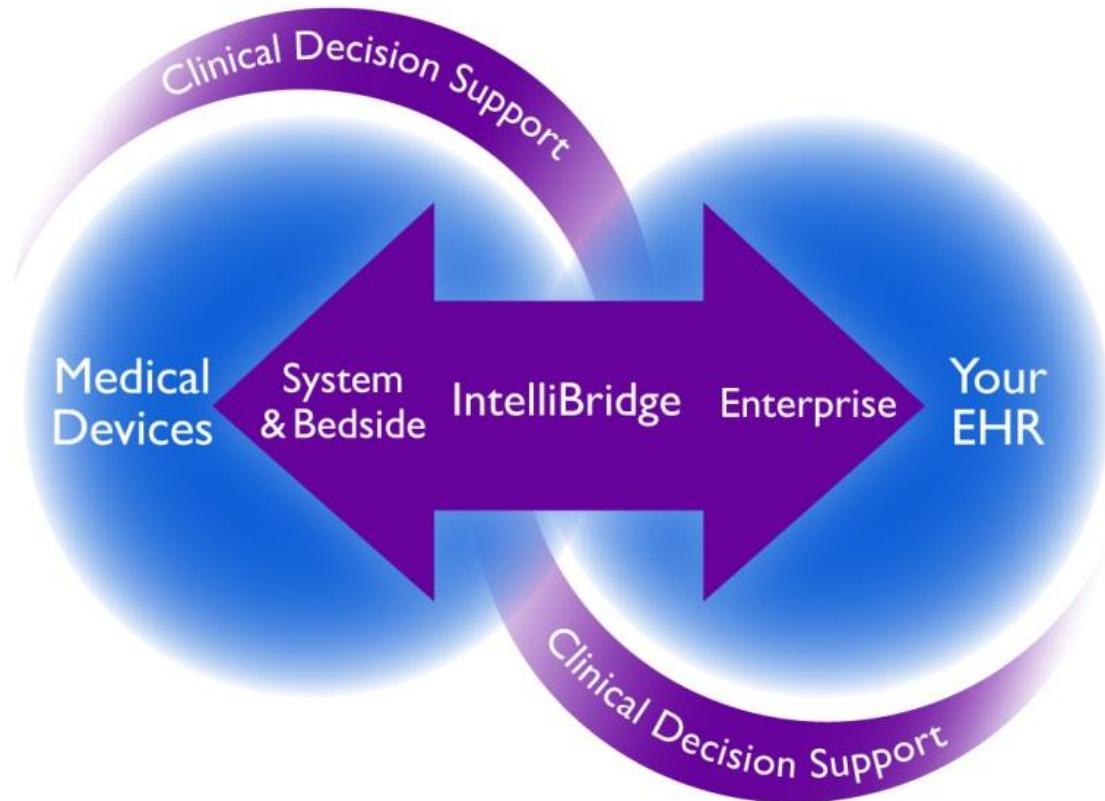
# Interoperability

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# Interoperability

**Key drivers:**

- Improving care at lower costs.

- Fast, efficient patient information sharing across enterprises.

- Meeting quality reporting and evidence-based care goals.

- Meeting government requirements.

- Allowing privacy and security of patients.

- Shortage of IT resources.

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# Interoperability Solutions @work

**Sharing rich and meaningful information to caregivers across the continuum of care**



IntelliBridge: interoperability simplified

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# Interoperability @Work

**Working with your clinical and enterprise partners**

- One interoperability point between Philips solutions and your EHR using IntelliBridge Enterprise.

- Integrating data from your multivendor point of care devices using IntelliBridge Bedside and IntelliBridge System.

- Supporting CCD, sharing information in the home and skilled nursing environments.

**Working with your existing infrastructure**

- Virtualization.

- IPv6 Networking.

- Networking Compatibility.

- Support for Open Standards.

- Solutions for mobile health and telehealth.

**Working to integrate Philips products into seamless solutions**

- IntelliVue Information Center iX/IntelliVue patient monitors.

- Xcelera cardiology solution/IntelliSpace PACS radiology.

- HeartStart MRx monitor/defibrillator and IntelliVue Clinical Network.

- Philips Bedside Monitors/Philips ECG Management System.

- SureSigns VS4 and in-device patient validation

- IntelliSpace suite of virtual medicine solutions

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# Clinical Decision Support

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# Clinical Decision Support

**Key drivers:**

- Supporting patient safety.

- Delivering evidence-based care.

- Improving care.

- Demonstrating support and adherence to quality measures.

- Improving workflow.

- Demonstrating meaningful use.

- Addressing new obligations arising from healthcare reform.

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# Clinical Decision Support @work

**Delivering actionable clinical intelligence that impacts patient care, workflow, and/or financial outcomes**



Improving Patient Care

Enhancing Quality with Evidence-based Decision Making

Supporting Patient Safety

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# Clinical Decision Support @work

**Delivering actionable clinical intelligence that impacts patient care, workflow, and/or financial outcomes**

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# Clinical Decision Support @work

## Supporting Patient Safety

- Rules
  - IntelliVue Guardian Early Warning Score
  - Event Surveillance, Advanced Event Surveillance
  - Neonatal Event Review and Oxy-CRG
- Checklists
  - ProtocolWatch – Sepsis
  - eICU Program
- Alerts
  - IntelliSpace Critical Care & Anesthesia Advisories
  - eICU Smart Alert Prompts
  - Horizon Trends
- Electronic Policies/Procedures
  - eICU Program
  - ProtocolWatch – Sepsis
- Online Electronic Help
  - eICU Program
  - OLEH Anesthesia

## Enhancing Quality with Evidence-Based Decision Making

- Computer Interpretable Guidelines/Consultation
  - ProtocolWatch – Sepsis
  - eICU Sepsis Screening Prompts
  - IntelliSpace Critical Care & Anesthesia
  - IntelliVue Guardian Software
- Predictive Closed Loop Algorithms
  - Advanced DXL 12-Lead ECG Algorithm for STEMI
  - VentAssist
- Image and Signal Analysis
  - DXL Algorithm
  - QtQtc Algorithm ST MAP
  - Neonatal Event Review and Oxy-CRG
  - IntelliSpace PACS
  - Xper Flex Cardio Physiomonitoring
  - Xcelera

## Improving Patient Care

Heading toward personalized care

- Advanced CDS algorithms to determine individual patient risk of disease
- Best course of treatment for certain diseases and conditions
  - Automatic External Defibrillators (AEDs) SMART Biphasic Therapy

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**Mobility Solutions**

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# Mobility Solutions

**Key drivers:**

- Increasing expectation for mobile access to clinically relevant data anytime and anywhere.

- Customer needs for efficiency in clinical workflows.

- Regulatory compliance and security demands with an enterprise IT friendly solution.

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# Mobility Solutions @work

## Pre-Hospital

- Philips HeartStart MRx Monitor/Defibrillator may help reduce Discovery-to-Treatment time by forwarding a patient's 12-lead ECG from the ambulance to the receiving hospital.

## On Demand

- Philips IntelliSpace Perinatal delivers near real-time fetal information to an iPad.®

- PIIC iX provides access to retrospective patient Information on iPad.®

- IntelliSpace PACS Anywhere* viewer will provide enterprise wide access to radiology images.

- * Work in progress

## Notify

- Philips IntelliSpace Event Management is a leader in bringing relevant and actionable notifications to clinician's mobile devices.

- STEMI ECG Notification App (mVisum partnership).

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**Telehealth Solutions**

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# Telehealth Solutions

**Key drivers:**

- Shortage of key clinical resources; need for greater access to clinical specialists.

- Enabling remote monitoring across the enterprise.

- Improving patient care while reducing costs.

- Removing geographic boundaries to care.

- Enhancing clinical, staff and patient transitions.

- Supporting greater patient self-care and helping reduce repeated hospital admissions and ER visits.

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# Telehealth Solutions @work

## Philips Remote Care Technologies

- A platform of population management technologies leveraging a dedicated, centralized care team combining advanced CDS, revolutionary A/V, and clinical consultancy.

- *eConsultant - episodic, consultative telehealth for the ED (telestroke)*

- *IntelliSpace eICU Program - trusted results for the ICU*

- *Acute Care - expanding to the Medical-Surgical area*

## Philips IntelliSpace PACS and Xcelera

- Supports remote diagnostics through rapid, enterprise-wide delivery of diagnostic-quality images across the radiology and cardiology care continuums.

## Philips Home Telehealth Solutions

- Clinicians remotely monitor patients at home (via vital signs data and short surveys about their health status), facilitating more timely care decisions and helping reduce unnecessary hospitalizations

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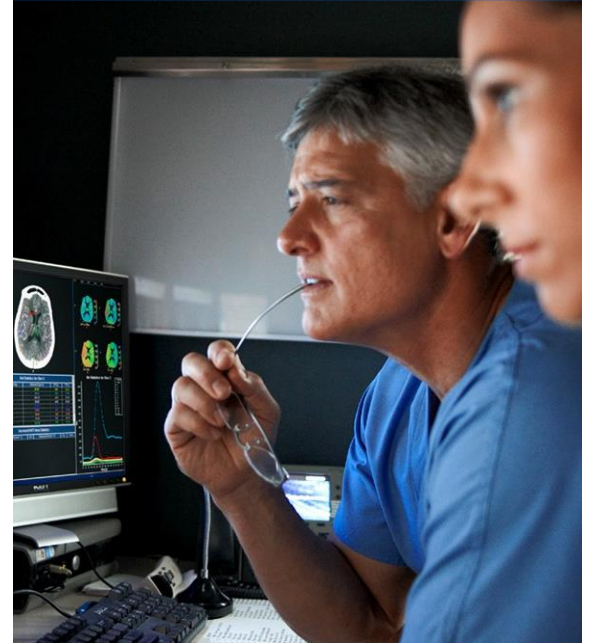# Patient Care and Clinical Informatics Solutions

**Drivers, Vision**



**Connected Care Solutions**

**Cardiology Informatics**

**Enterprise Imaging Informatics**

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**IntelliSpace Event Management**

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# IntelliSpace Event Management

**Industry trends and drivers:**

- Effective communication amongst staff
- Sharing information across a community
- Enabling mobility to support multi-tasking
- Assisting in alert fatigue
- Supporting patient safety
- Quicker response to patient needs
- Improving workflow and hospital throughput
- Aiding decision making

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# Our IntelliSpace Event Management Vision

## Creating a path to better Communication
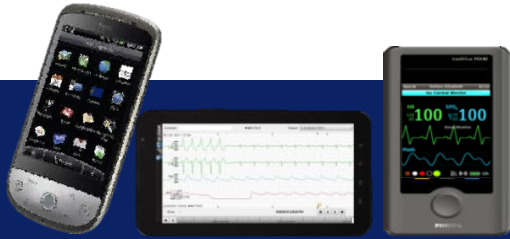
**Efficiency and Collaboration**

- Staff receives time-sensitive alerts, messages, and tasks.

- Shorten wait times and improved patient satisfaction.

- Deliver necessary notifications that assist in making care teams workflow more efficient and effective.

- Expand actionable clinical knowledge.

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# What's new

## IntelliSpace Event Management



### Mobility

- Innovation in connecting and delivering necessary data to mobile devices.
- Saves time, improves communication and improved clinician workflow

### New

- Ever increasing list of Interoperable devices
- Personal Assignments on End Device



### Decision Support

- Innovation in providing actionable notification information to deliver more effective patient care
- Providing access to data to support clinical care coordination and organization effectiveness

### New

- Historical Database (HDB) Reporting
- Enhanced Whiteboard
- Job Role Assignments
- Alert Delay



### Enterprise

Supporting unique multiple locations within one centralized solution

Allowing for efficiencies and sharing of resources amongst unique sites.

### New

- Virtual Failover
- Increased Logging Capacity

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# IntelliSpace Critical Care and Anesthesia

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# IntelliSpace Critical Care and Anesthesia

**Industry trends and drivers:**

- Supporting critical care workflows

- Supporting Anesthesia documentation workflows

- Expanding usage into mid-acuity units

- Addressing needs of young markets

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# Our **IntelliSpace CC&A** Vision

## Creating a path to improved care

### Efficiency and safety

- A proven charting solution, with flexible and rich clinical data that can drive clinical transformation

- Do more with less by automating routine tasks – more focus on patient care

- Expand actionable clinical knowledge

# IntelliSpace Telehealth

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# IntelliSpace Telehealth

**Industry trends and drivers:**

- Value-based framework succeeds volume-based models of care delivery

- Measurable performance mandates drive care quality incentives

- Increasing willingness to adopt telehealth applications for disease-specific or population specific care delivery optimization

- Fragmented models of telehealth across hospitals and health systems leading to redundancy in technology, lack of interoperability
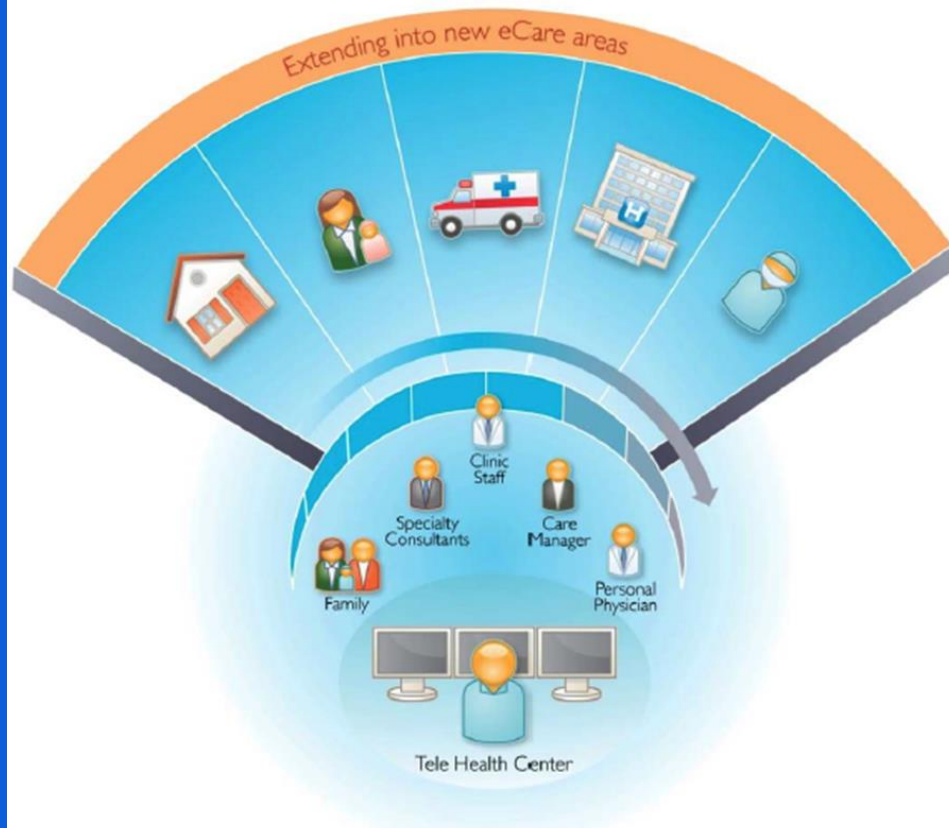
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# Our Telehealth Vision

**Solutions supporting clinical and patient engagement**

## Leveraging Critical Resources

- Support care processes through dedicated, centralized resources

- Coupling advanced technology with consultative services to deliver care transformation

- Enterprise level data interoperability to provide seamless oversight across the patient care continuum

- Impact cost and quality through proactive care delivery

- Delivering population specific solutions for meaningful outcome improvements

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# What's new

## Telehealth



## Clinical Decision Support

- Innovation in patient population management
- Graphical metaphors consolidating diverse patient data to prioritize assessment and alert of deterioration early

### New

- Automated Acuity
- Pain, Agitation & Delirium
- Discharge Readiness Scoring

## Interoperability

- Innovation in information access and exchange
- Supporting seamless data access across patient care transitions, from hospital to home

### New

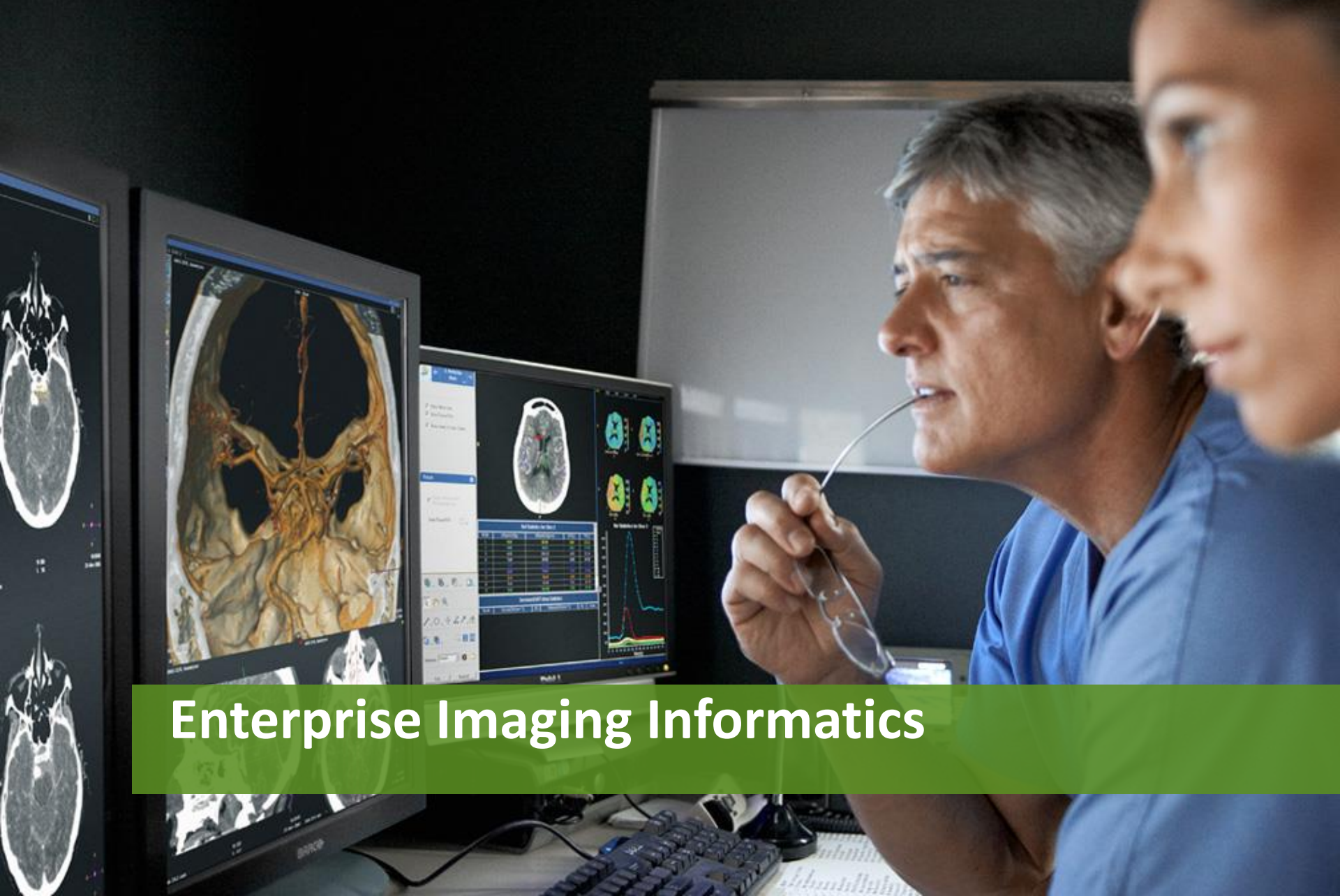- Validated support for the IntelliBridge Enterprise integration engine

## Clinical Consulting

- Joining technology with clinical expertise to deliver measurable results
- Partnering to introduce innovative programs with telehealth

### New

- Engagement for 30-day readmission penalty mitigation
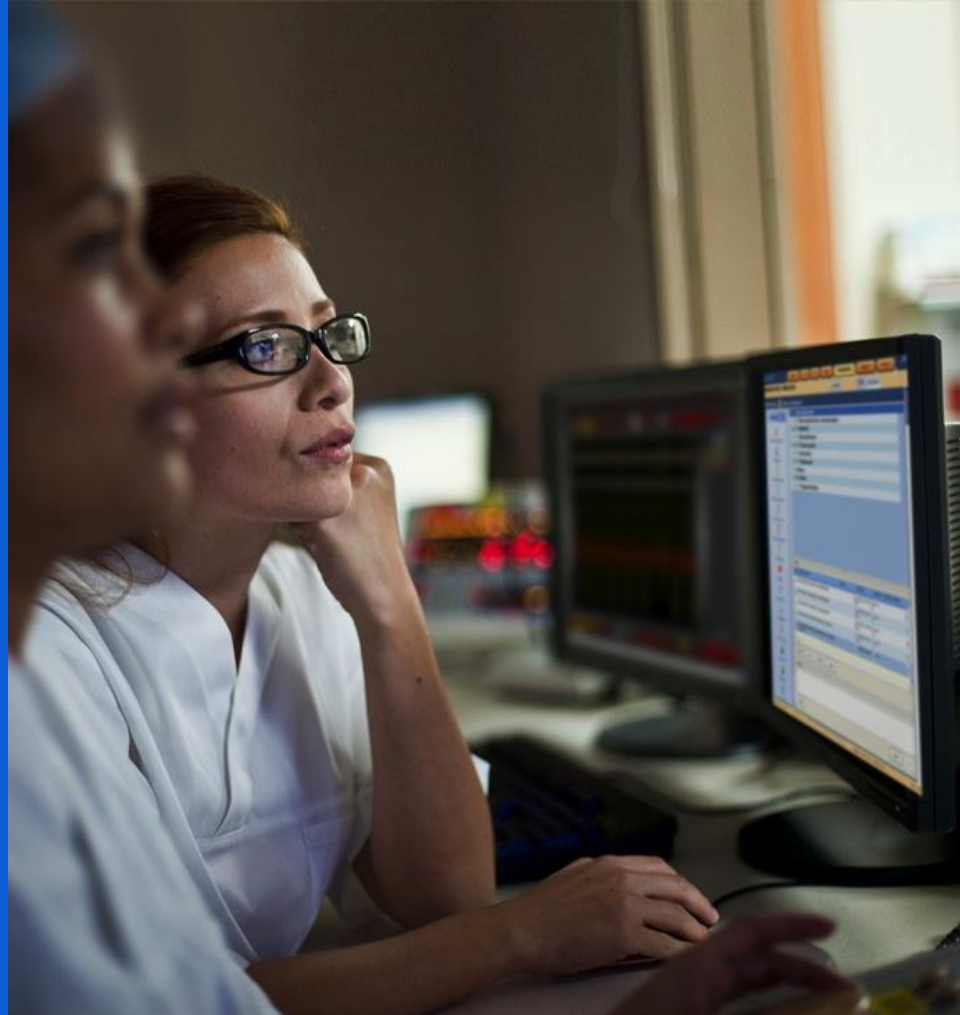- Chronic care solutions in the ambulatory space

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**Enterprise Imaging Informatics**

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# Enterprise Imaging Informatics

## Collaboration, workflow efficiency, and clinical decision support

### Industry trends and drivers:

- Improve quality in patient care, while lowering the cost of delivering the care.

- Need for more portable, and readily accessible patient information.

- A need for collaboration and communication tools to orchestrate patient care.

- The need for better patient contexts, and aggregated records, drives the demand for greater interoperability across the solution ecosystem.

- Consolidation across provider networks, is driving the need for more open/standards based architecture.

- Broad adoption of healthcare IT systems, calls for more user friendly/intuitive user interfaces.

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# Our Enterprise Imaging Informatics Vision

**To transform healthcare delivery by providing our customers a best-in-class imaging informatics solutions and services.**

- Image enabling the EMR

- Seamless scalability

- Mobility workflow solutions

- Robust interoperability

- Clinical collaboration

- Advanced clinical applications

- World class Infrastructure and services

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# What's new

## Enterprise Imaging Informatics



## Mobility

- Advanced collaboration and workflow
- Zero-footprint (no installation or SW download)
- Device agnostic & Platform Independent (leverage existing investments)
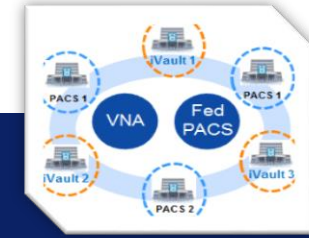
### In progress

- IntelliSpace PACS Anywhere*

*Work in progress

## Clinical Decision Support

- Efficient reading support in mammography & radiology
- Quantifiable information from image data using clinical applications
- Expanded cardiology support Cardiology Enterprise Viewer

### New

- IntelliSpace PACS Advanced Mammography.

## Interoperability

- Manage & distribute imaging data from multiple departments
- Seamless interface with 3rd party and Philips systems

### New

- VNA configuration support
- Unified viewing (single PACS)

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# Giving people the best healthcare possible

**What drives us**

We're dedicated to creating the future of healthcare and saving lives.

We develop innovative solutions across the continuum of care in partnership with clinicians and our customers to improve patient outcomes, provide better value, and expand access to care.

We strive to improve the quality of people's lives and continue raising the bar on clinical excellence at lower cost.