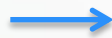




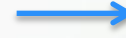
# MORE THAN PATIENT MONITORING



Monitor



Quantify



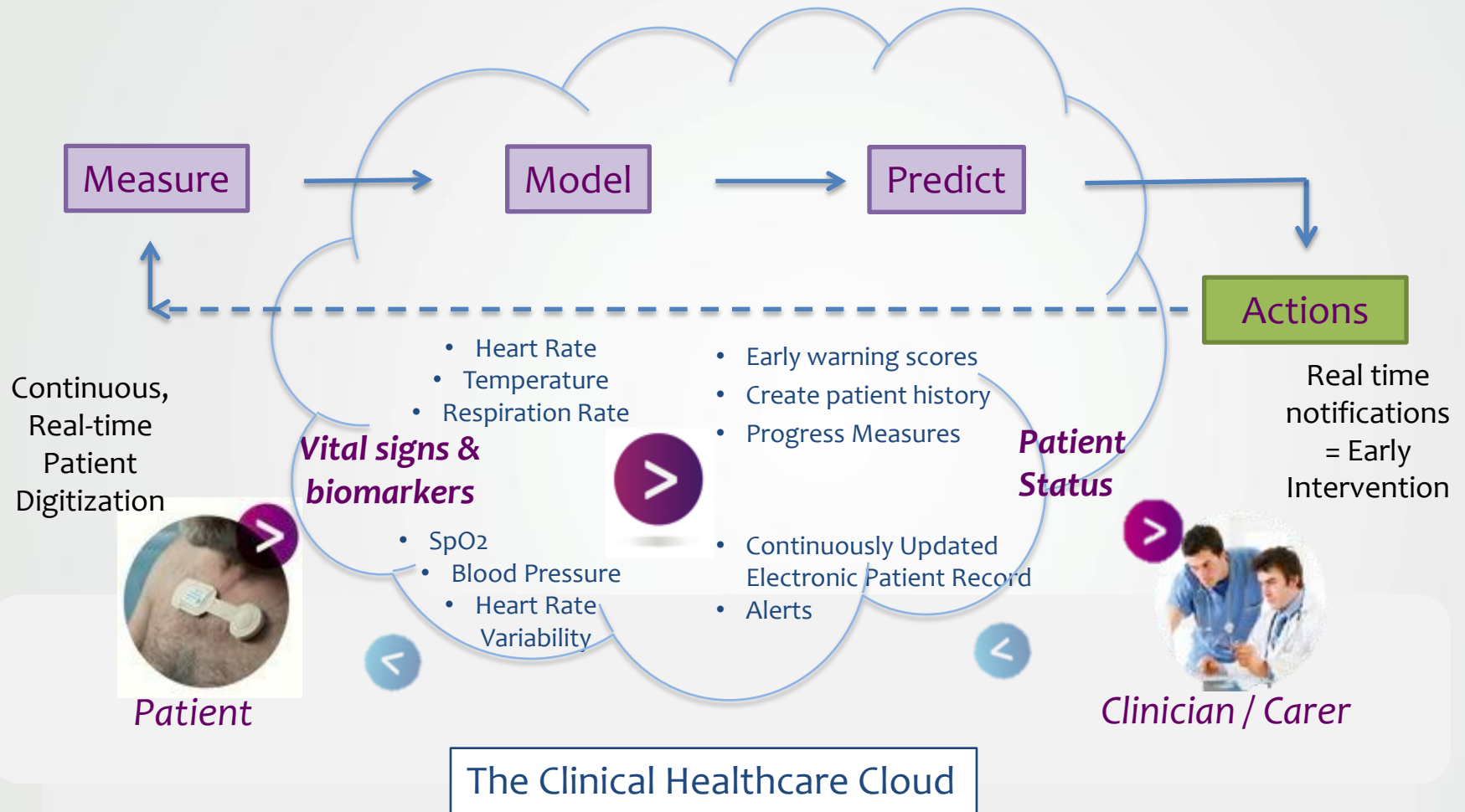
Discover

# The Challenge:

## UK Patient Safety & NHS shortages

In-hospital deterioration	Nearly 10% of patients
In-patient adverse events	850,000
Avoidable In-hospital deaths	12,000
Deaths from sepsis	37,000
Unnecessary bed days	£1.6 Billion
Total patient safety costs	£5 billion (at least!)

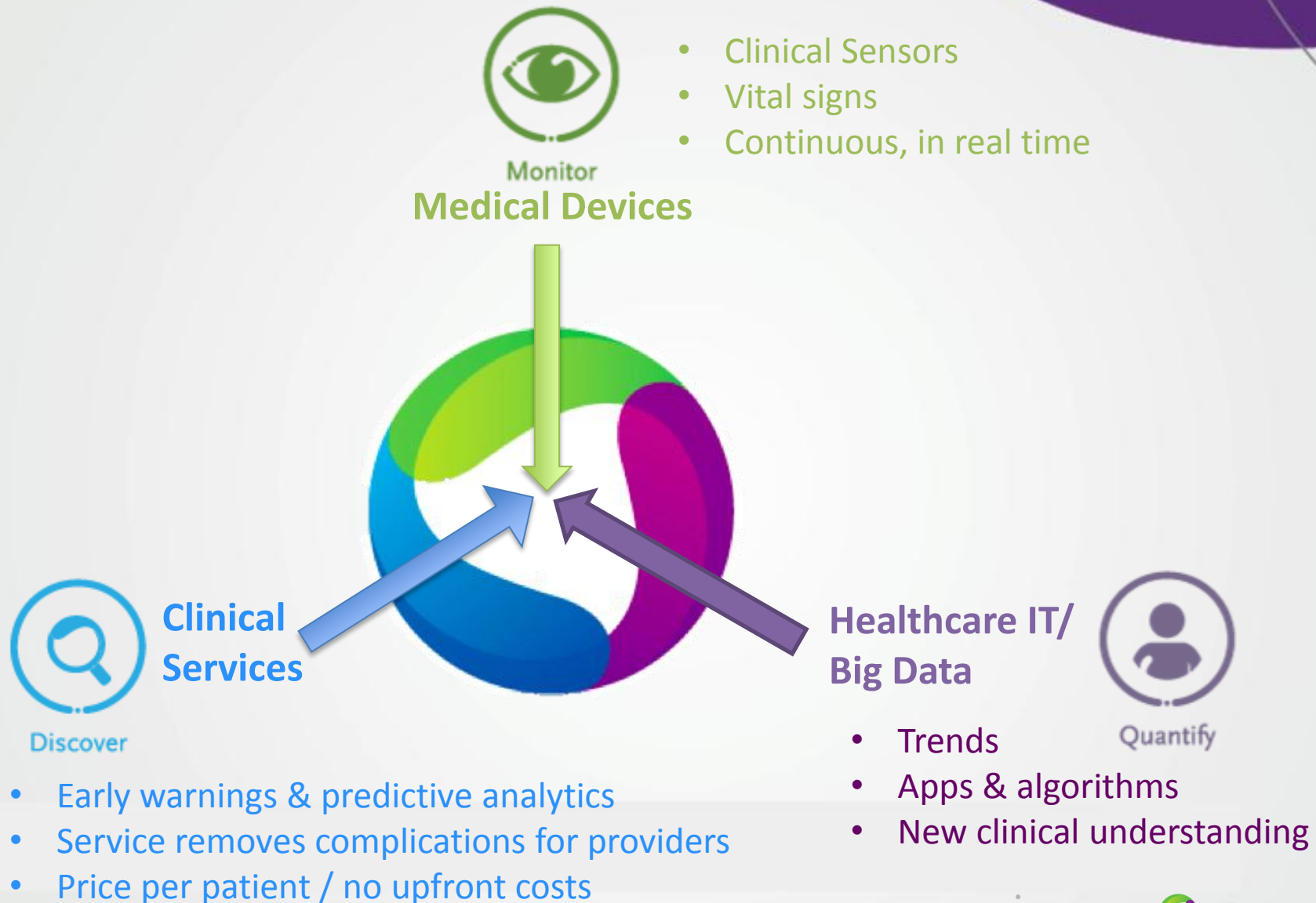
# The Solution: Patient Status Engine



# Transforming Healthcare Delivery

- ✓ Reduce In-hospital patient deterioration and ICU readmission
- ✓ Reduce readmission in first month of discharge
- ✓ Facilitate early transition of care from hospital to home
- ✓ “Digitising the patient” – analytics and big data

# New Generation Healthcare



# New Generation Healthcare

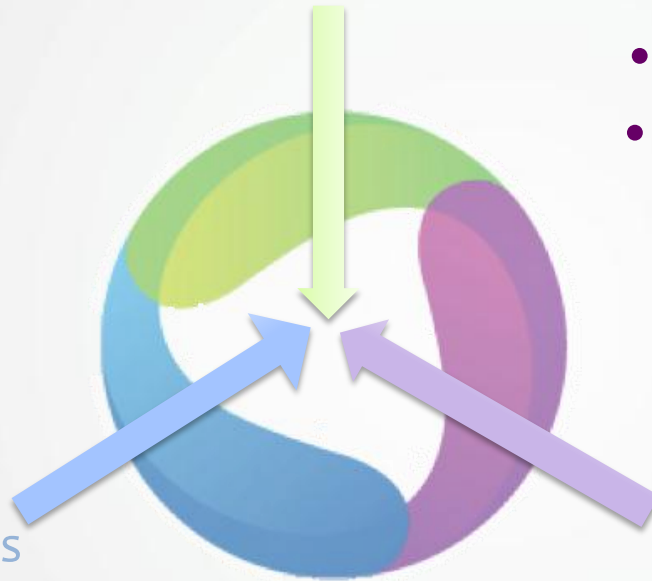
## Our Business

INNOVATION  
at the intersection

Large scale global  
opportunities

Clinical  
Services

Medical Devices



Healthcare providers  
can

- reduce expenditure
- improve efficiencies

AND

- Improve patient  
outcomes

Healthcare IT/  
Big Data

*Data & Information Business*

# Isansys Lifecare Limited

## Enhanced by SBRI Contracts

- Established April 2010, Offices in Oxfordshire UK and Bangalore India
- Founded by experienced Digital Health professionals in response to clinical customers
- 16 strong team includes a world-class engineers, manufacturing, regulatory and global marketing professionals. Up from 8 prior to SBRI.
- CE marked, IP protected medical device technology, fully audited and regulated to ISO13485 and MDD
- Delivery contracts with NHS trusts to provide Vitals as a Service for early detection of patient deterioration

# The Patient Status Engine Platform Innovation In Hospital



“Digitised” Patients  
Wearable sensors



## Lifetouch

- Heart Rate
- Respiration Rate
- Heart Rate Variability

## Lifetemp

- Temperature

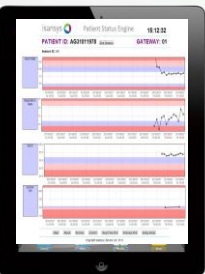
## New Pulse Oximeter

- Oxygen Saturation
- Blood Pressure



Low power  
Wireless  
Connections

Low power  
Wireless  
Connections



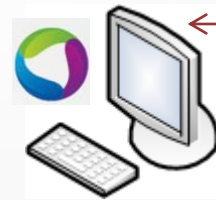
## Gateways

- One per bed
- Real time vital signs
- Patient charts
- Device association
- Relay to Isansys Server

Hospital Secure  
Wi-Fi Network

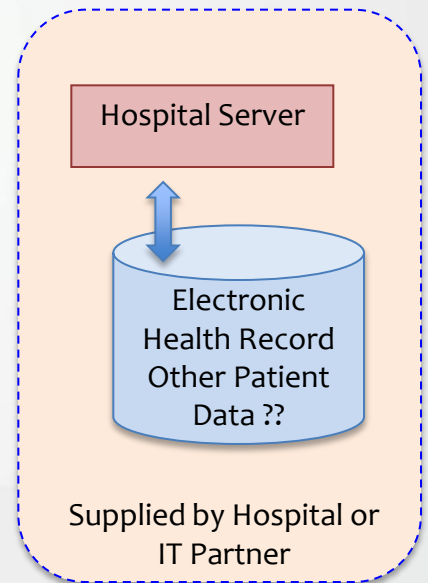
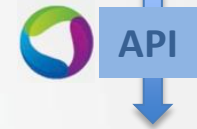
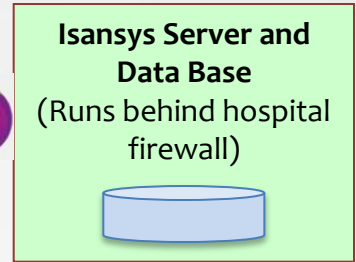


Wi-Fi



Nurses Station  
Dashboard

Patient data on any  
authorised device





# The Patient Status Engine Platform

## At Home

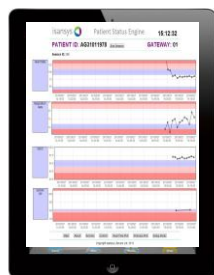
### Patient @ Home

“Digitised” Patients

Wearable connected sensors & mobile app



Low power  
Wireless  
Connections



#### Lifetouch

- Heart Rate
- Respiration Rate
- Heart Rate Variability

#### Lifetemp

- Temperature

#### Gateway

- Mobile device
- Patient App
- Collection of vital sign data and analysis (sepsis detection)
- Relay to Isansys Server

Secure Wi-Fi/3G/4G Network



Immediate  
feedback/message/ visit  
to patient

Nurses Station /  
clinical call center  
Dashboard

Isansys Server and  
Data Base  
(Runs behind hospital  
firewall)



API

Hospital Server

Electronic  
Health Record  
Other Patient  
Data ??

Patient data on  
authorised de

# SBRI Phase 1 Contracts Awarded

**Every Patient Monitored:** An expansion of Isansys Patient Status Engine (PSE) to enable a scalable, low cost multiple vital sign patient-data acquisition and analysis platform, for rapid early detection of deterioration and avoidance of adverse events  
*Patient safety category*

**Early Detection of Sepsis in the Community:** A repurposing and extension of the Isansys Patient Status Engine (PSE) for early detection of sepsis to avoid hospital admission through primary care interventions for cancer patients undergoing chemotherapy  
*Cancer category*

# SBRI Benefits for Isansys

MANY!

- ✓ 100% funded technical and clinical development programmes
- ✓ The customer - the NHS - is the focus. Contracts with Papworth NHS Trust
- ✓ Speed up of key technology that can be used in many applications of our platform
- ✓ Significant increased in the size and quality of our team – opened up 8 new positions
- ✓ Increased awareness of the company and our products, leading to a great deal of interest from other technology suppliers and system integrators who would like to partner with us
- ✓ increased interest and credibility with future investors
- ✓ Exposure and increased credibility with prospective customers, particularly NHS

# Isansys Experiences of SBRI

- ✓ Straightforward, transparent and easy to follow application process
- ✓ The SBRI team are interested, accessible and helpful - and we know who they are!
- ✓ 100% funding is very nice!
- ✓ Light touch project monitoring.
- ✓ Project reporting requirements are appropriate for the size of the projects and the company's management resources ( i.e. not overly onerous or bureaucratic
- ✓ Focus is on getting new products and technology into the NHS to improve care and reduce inefficiency
- ✓ Far and away the best funding mechanism I have ever seen!