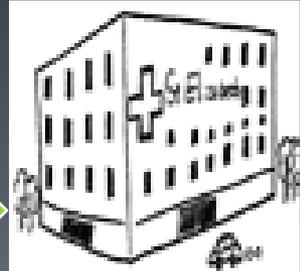
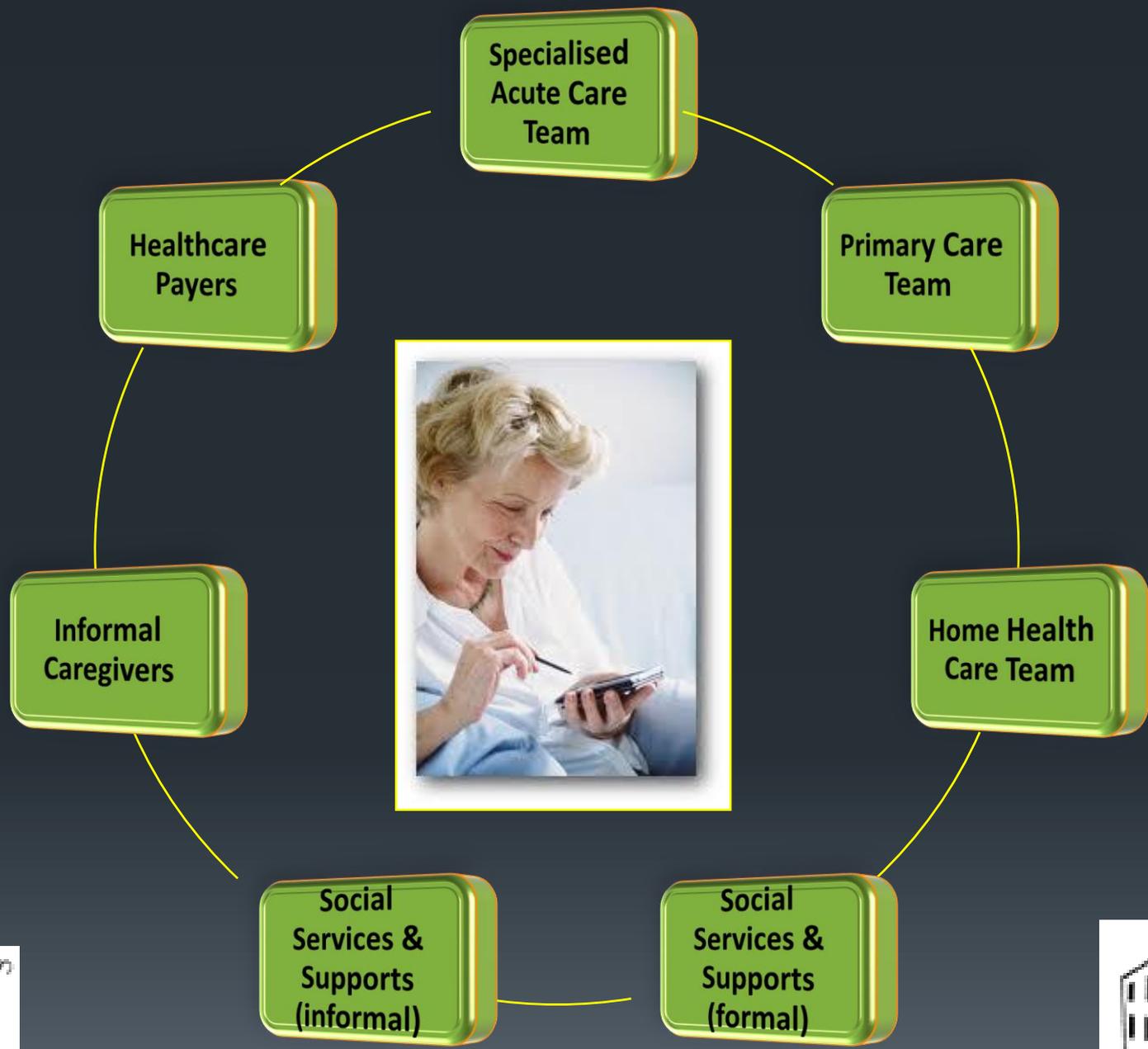




Facilitating the Transition to Connected Health in Ireland

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Adopting CH Solutions & Pathways



Only 3.5% of \$2.5trillion spent on healthcare in US each year is on ICT (Forbes, 2012)

Adoption cycle is fuelled by provision of clear evidence and understanding of:

1. Advantage offered by Connected Healthcare model
 - Clinical Efficacy
 - Economic Efficacy
2. Successful Business Models
3. Implementation Standards

Study raises questions about home health monitoring

By: Neil Versel | Apr 26, 2012

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Maybe home-based patient monitoring is not quite ready to take off after all.

Some of you may be aware that I was looking for the right piece of monitoring technology not too long ago to help my family keep tabs on my 93-year-old grandmother, who had been living alone far from the rest of us. That's not an issue for the moment because she's been staying with my parents for the last month or so, and she may not be able to go back into her home anyway because a wireless monitor can't cook dinner or do laundry.

Meantime, I had heard anecdotally that another elderly relative had opted for – and then stopped using – a wireless accelerometer because the device had



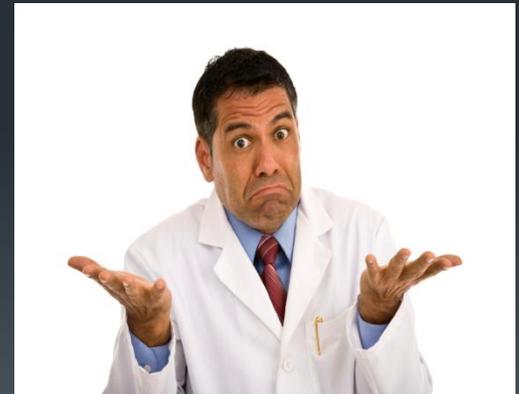
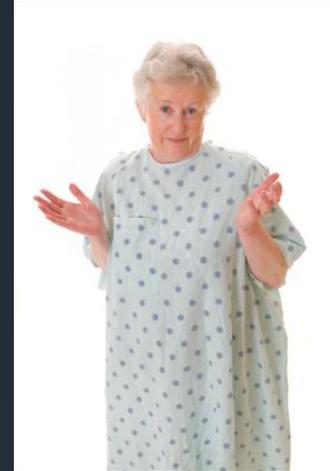
A Randomized Controlled Trial of Telemonitoring in Older Adults With Multiple Health Issues to Prevent Hospitalizations and Emergency Department Visits

Takahashi P et al. *Arch Intern Med*. Published online April 16, 2012. doi:10.1001/archinternmed.2012.256

Information Gap

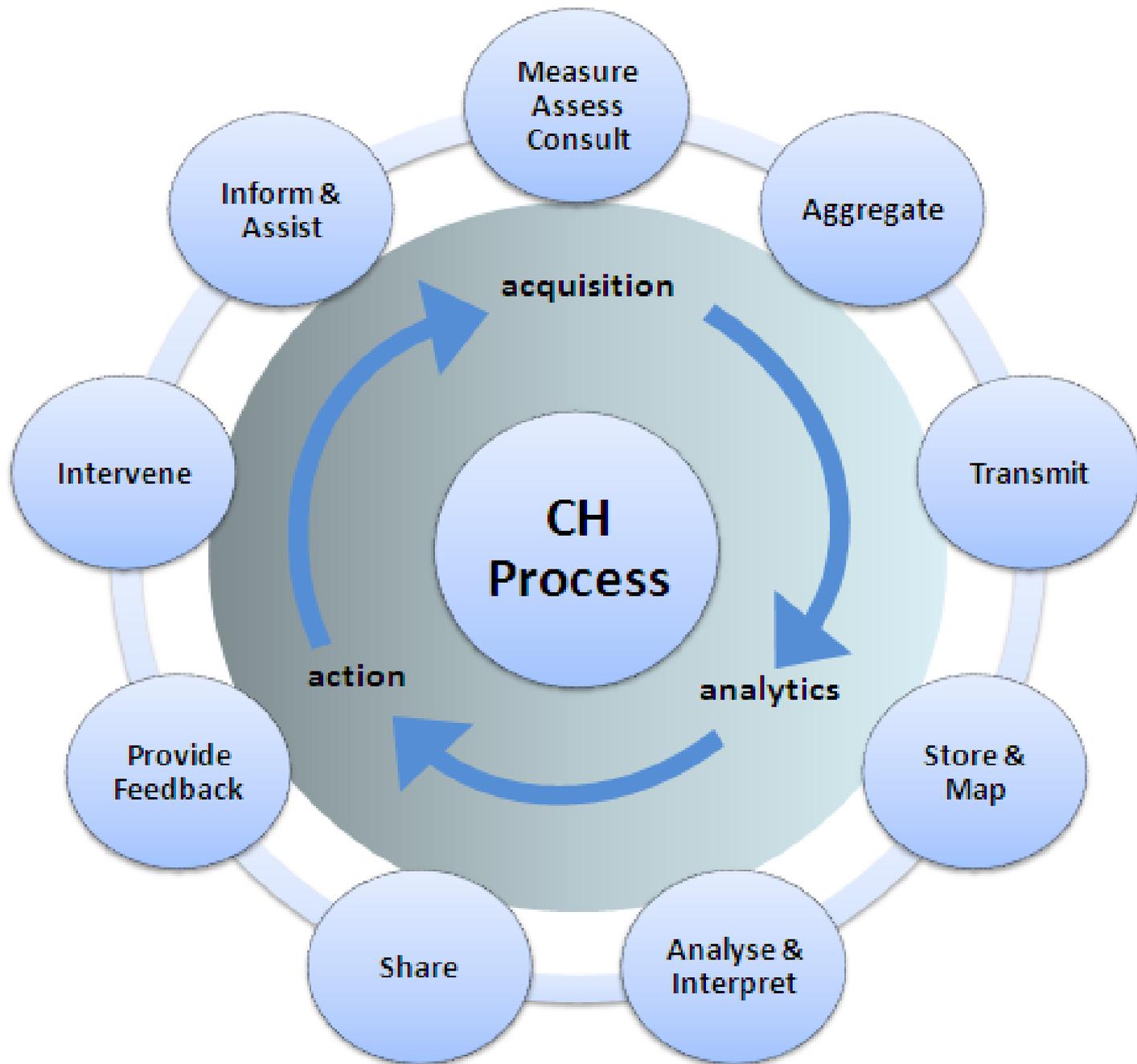
We need better understanding of how to:

- Effectively and unobtrusively measure human behaviour.....
- Identify relationships between human behaviour and health status or need for intervention.....
- Use data to drive an efficient care package by means of delivering timely and relevant information to stakeholders
- Engage the patient/user in their own care.....
- Create implementation and business models.....



Keys to Success

- Focus on innovation at a care model level
- Care model innovation must be clinically informed to meet the needs of the clinical sector
- End user engagement in design & evaluation of technologies and implementation models is critical
 - Patient
 - Caregiver
 - Healthcare professional



CH Research Needs



Business Modeling

Clinical Evaluation

Economic Evaluation

Data Communication

Database Management

Data Security

Human Computer Interaction

Regulation & Compliance

Sensors Ambient / Wearable

Digital Signal Processing

Data Analysis & Interpretation

Usability Evaluation

Ethnography

Interaction Design

'big data' Analytics

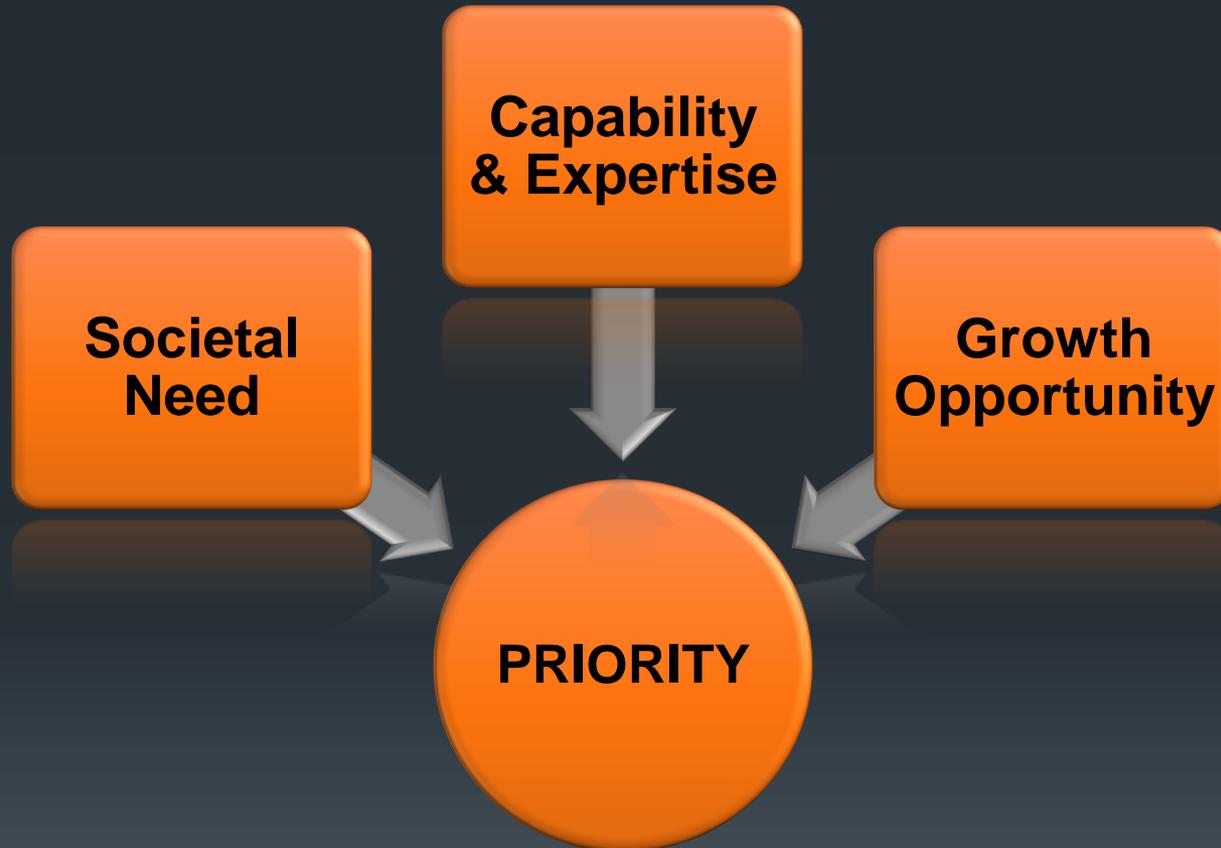
System / Service Integration

Clinical Research

Irish Connected Health Ecosystem

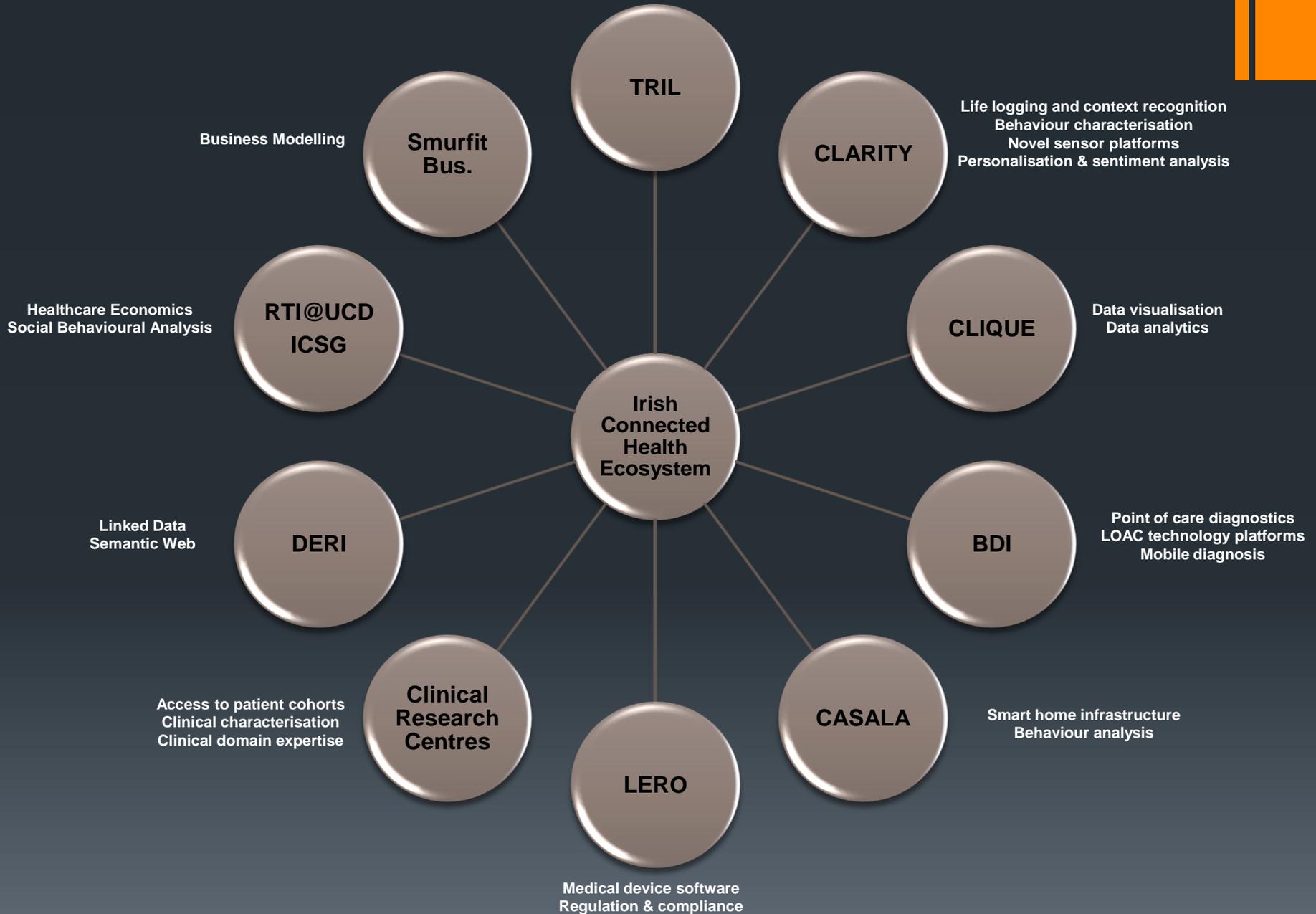


Irish Research Prioritisation



'Connected Health & Independent Living'

Ethnographic design
Home deployment & evaluation
Home & community trials
Prototyping & systems integration



TRIL Cohort & Clinical Research Platform



TRIL Technology & Design Platform



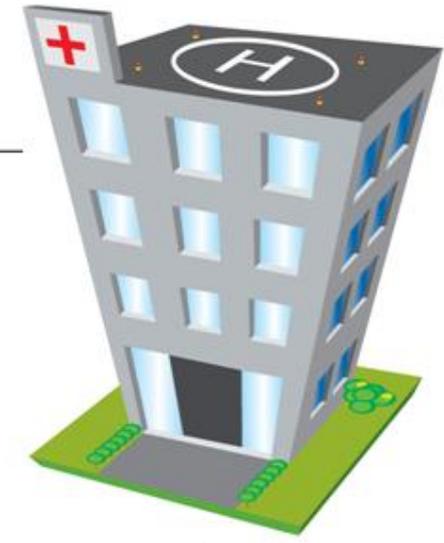
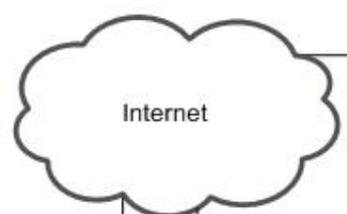
Basic Research



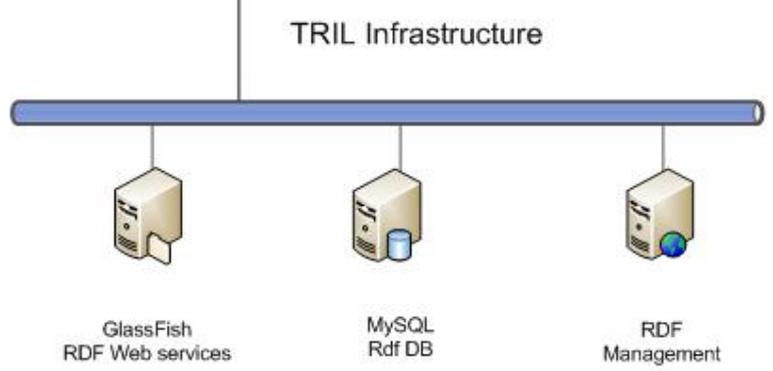
Applied Research



Technology Research
for Independent Living



St. Vincent's University Hospital





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