

# The HSE Measuring Strategy and evidence base development

Presentation by

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# Developing the HSE measuring strategy



**Background and context**

**Measuring Strategy development**

**Measuring Strategy – model, principles and framework**

**Next steps**

# Developing the HSE measuring strategy



Having the right evidence base to monitor and evaluate the impacts of a national level intervention program in achieving its goal is an on-going challenge

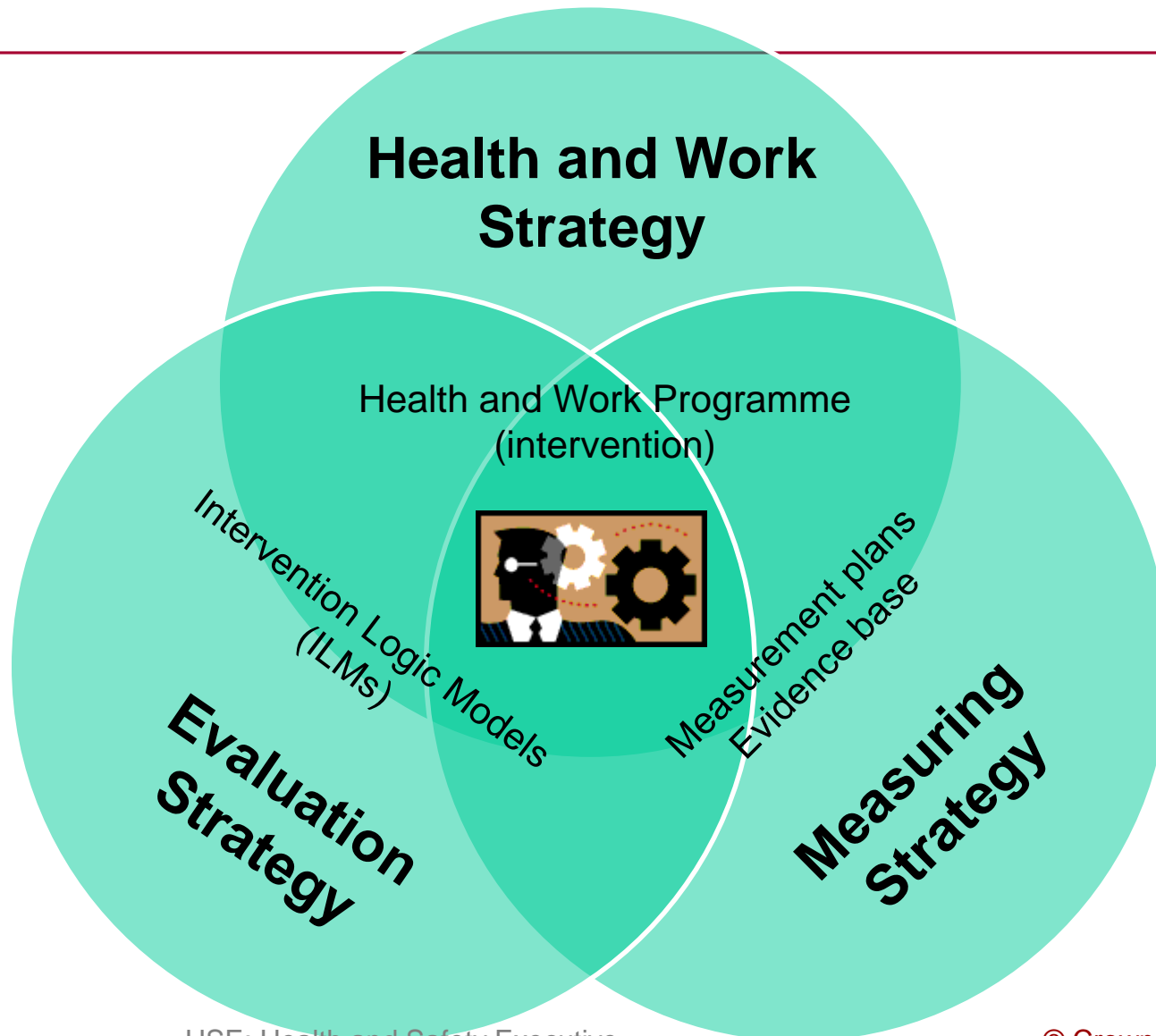
**2000** – Revitalising health and safety targets (HSE, GB)

**2010** – Developing a performance measurement framework for HSE and the wider health and safety system based on a basket of directional indicators

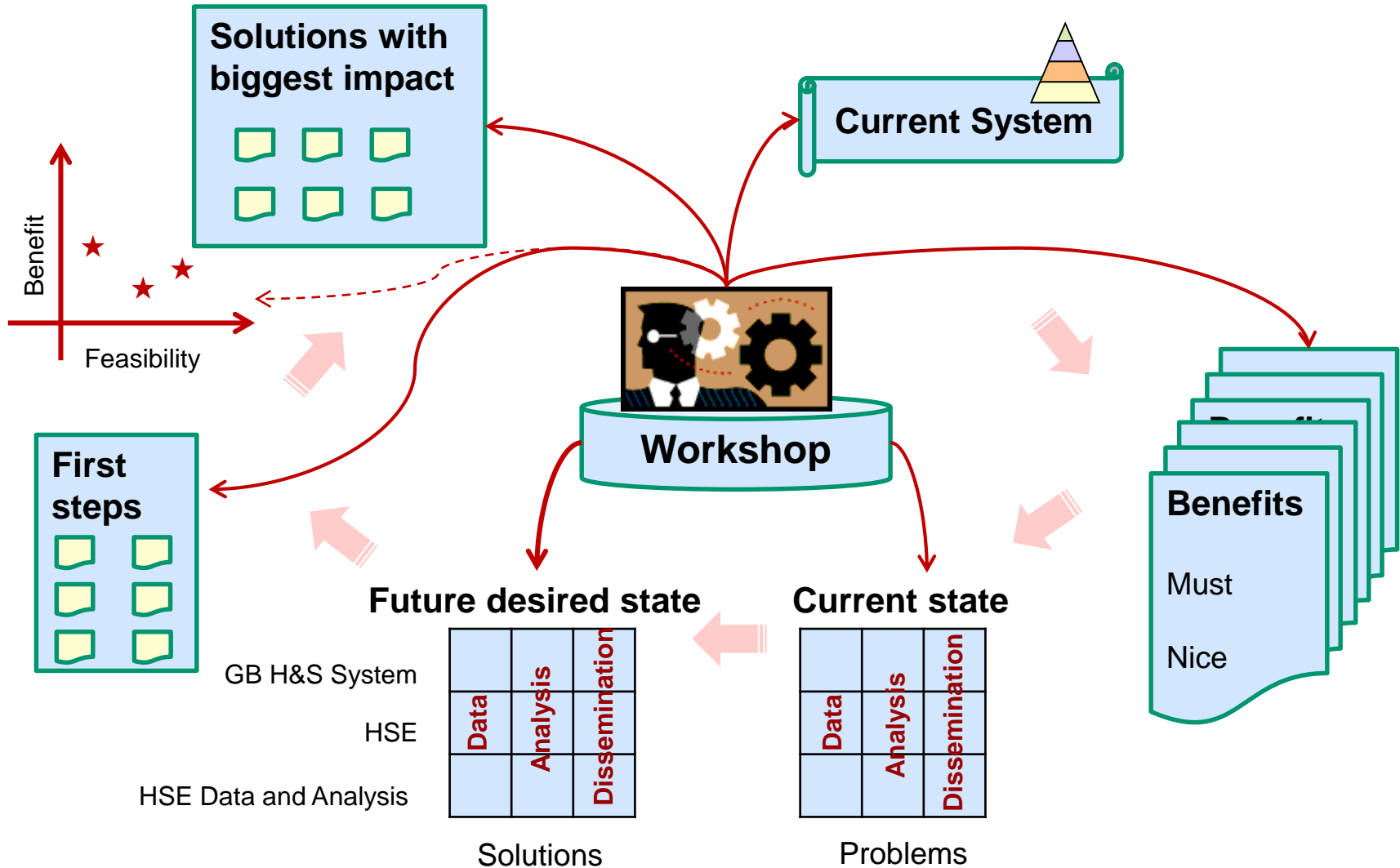
## The needs:

- Sustainable and coordinated efforts
- Long-term evidence base development

# Measuring Strategy and the evaluation of the Health and Work program in GB

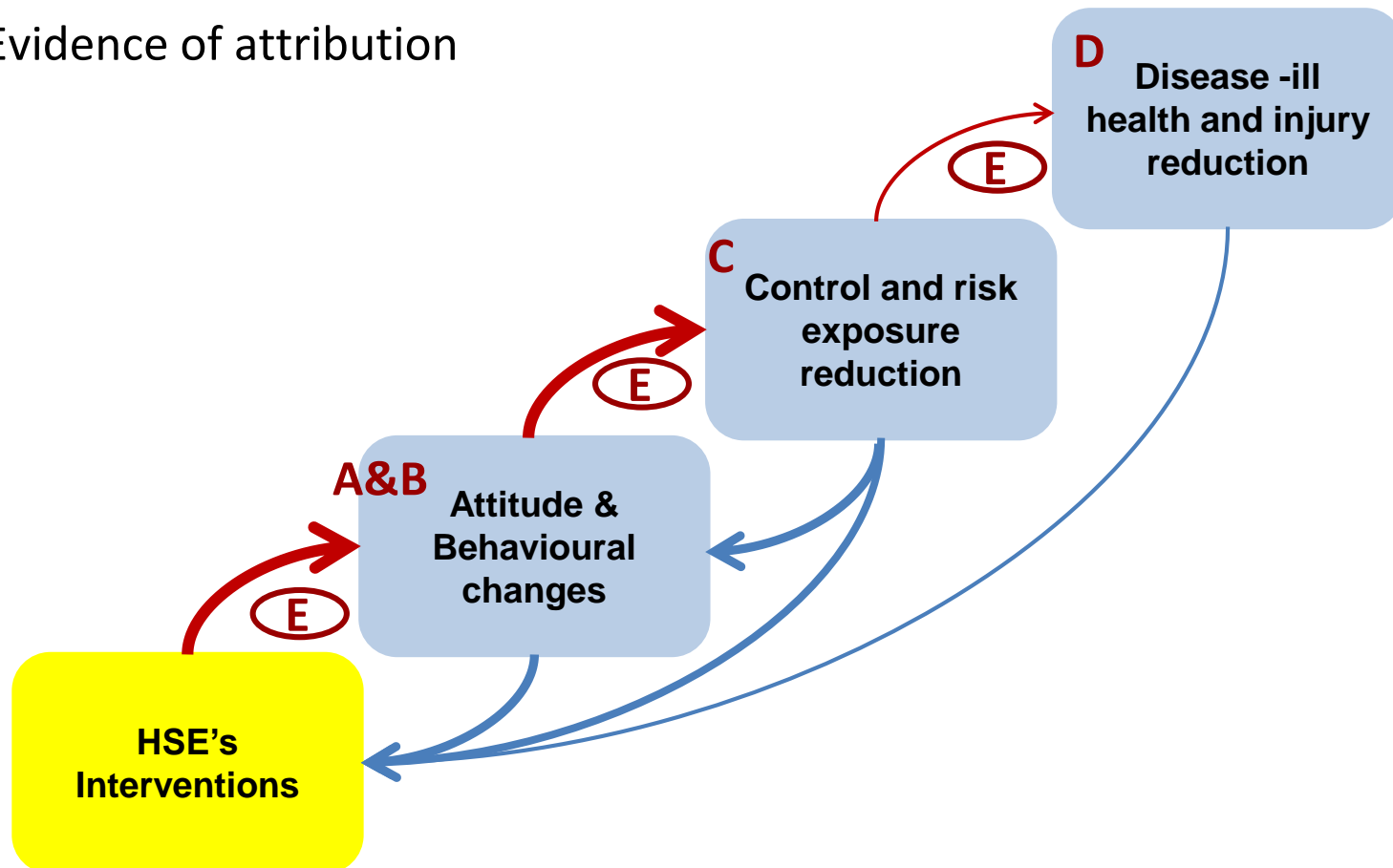


# National Occupational Health Surveillance Workshops



# HSE Measuring Strategy – ABCDE model

- A – Attitude/awareness
- B – Behaviours
- C – Control of exposure
- D – Disease reduction
- E – Evidence of attribution



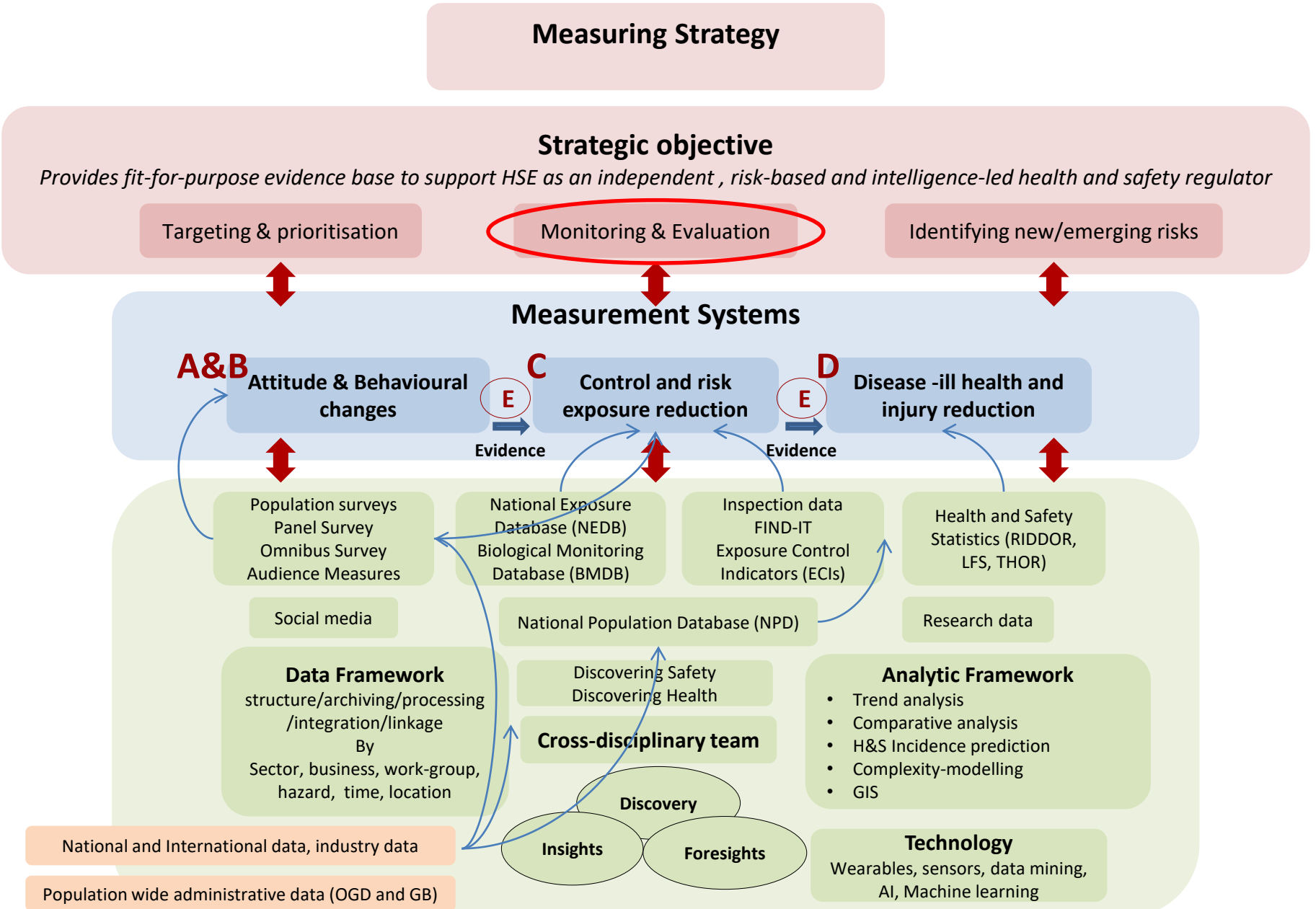
# HSE Measuring Strategy

## --- *Measurement principles*



- 1 To provide a framework for better use of measurements across HSE
- 2 To give a new focus on measuring behavioral changes and risk exposure reductions
- 3 To ensure measurements are underpinned by scientific evidence
- 4 To link measurement priorities to HSE strategic and business plans
- 5 To allow the best possible longitudinal assessment of progress over time
- 6 To be able to estimate the potential national level impact and long term impact
- 7 To have a system in place to access, manage, link and utilize existing data
- 8 To generate real-time intelligence as far as practically possible
- 9 To enable effective communication for translation of evidence into actions

# HSE Measuring Strategy --- The framework



## Measuring Strategy

### Strategic objective

Provides fit-for-purpose evidence base to support HSE as an independent, risk-based and intelligence-led health and safety regulator

Targeting & prioritisation

Monitoring & Evaluation

Identifying new/emerging risks

### Measurement Systems

A&B

Attitude & Behavioural changes

C

Control and risk exposure reduction

D

Disease -ill health and injury reduction

E

Evidence

E

Evidence

Population surveys  
Panel Survey  
Omnibus Survey  
Audience Measures

National Exposure Database (NEDB)  
Biological Monitoring Database (BMDB)

Inspection data  
FIND-IT  
Exposure Control Indicators (ECIs)

Health and Safety Statistics (RIDDOR, LFS, THOR)

Social media

National Population Database (NPD)

Research data

**Data Framework**  
structure/archiving/processing /integration/linkage  
By  
Sector, business, work-group, hazard, time, location

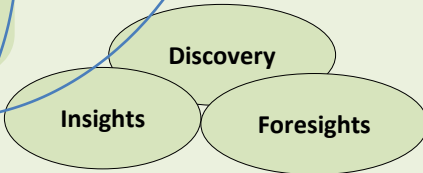
Discovering Safety  
Discovering Health  
**Cross-disciplinary team**

**Analytic Framework**

- Trend analysis
- Comparative analysis
- H&S Incidence prediction
- Complexity-modelling
- GIS

National and International data, industry data

Population wide administrative data (OGD and GB)

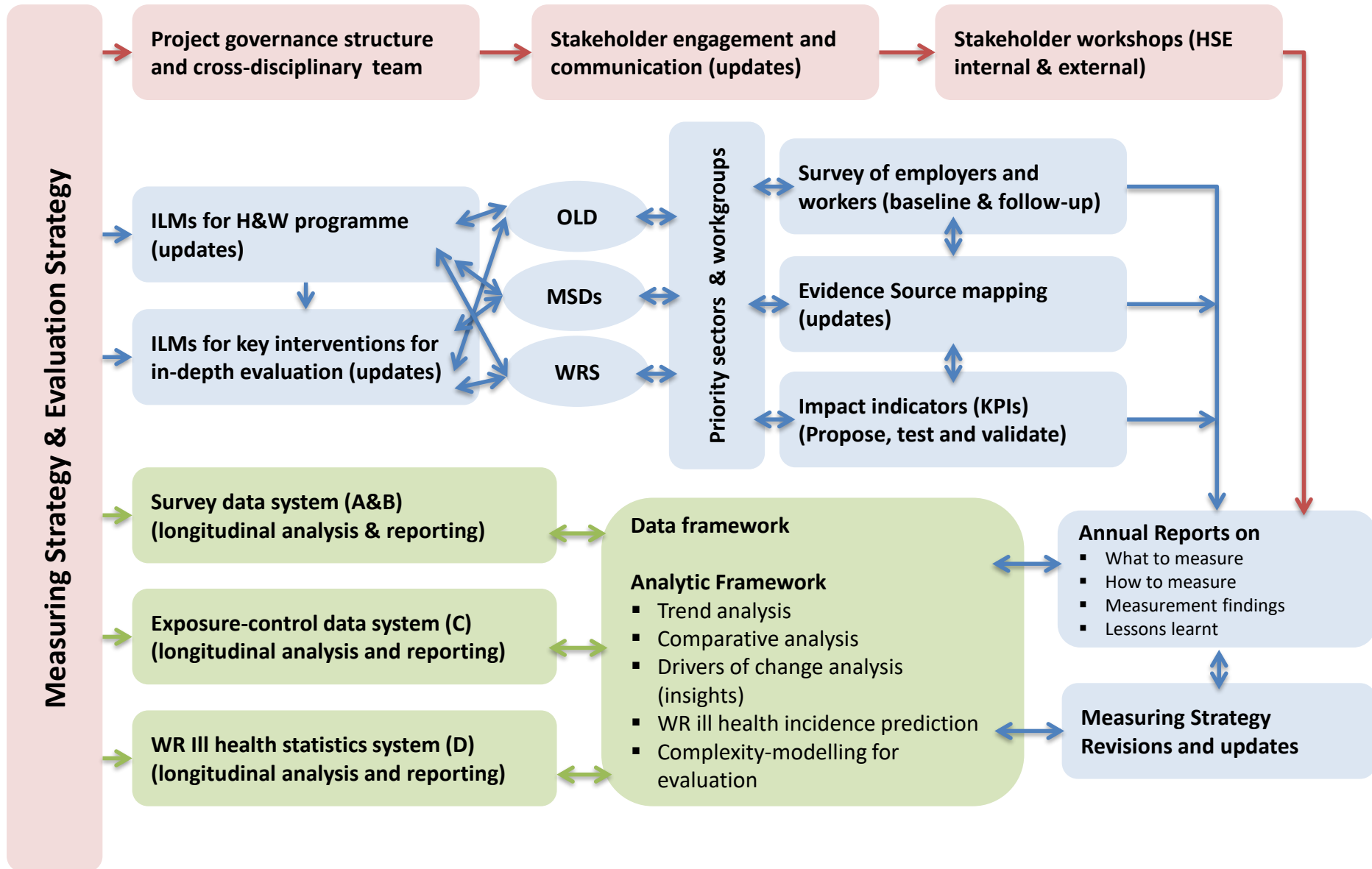


**Technology**  
Wearables, sensors, data mining, AI, Machine learning



# Delivering the Measuring Strategy

with the evaluation of Health and Work programme --- *A project*



# HSE measuring strategy - next steps



- Implement the Measuring Strategy to support the evaluation of the Health and Work programme
- Revise and improve the Strategy over time
- Extend the Measuring Strategy to support organization wide planning and evaluation
- Building cultures of collaboration and organisational learning