

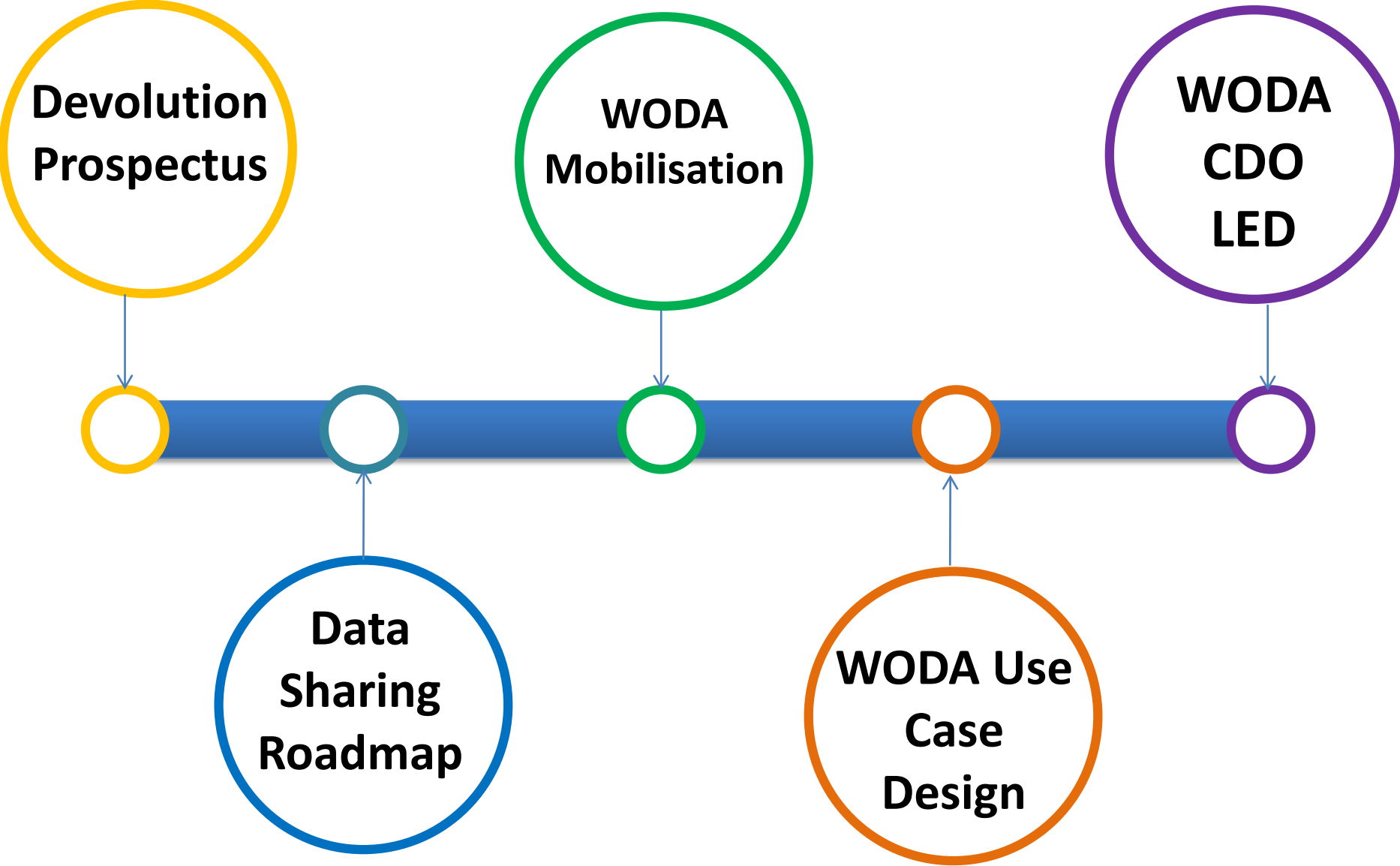


One Year as an Office of Data Analytics

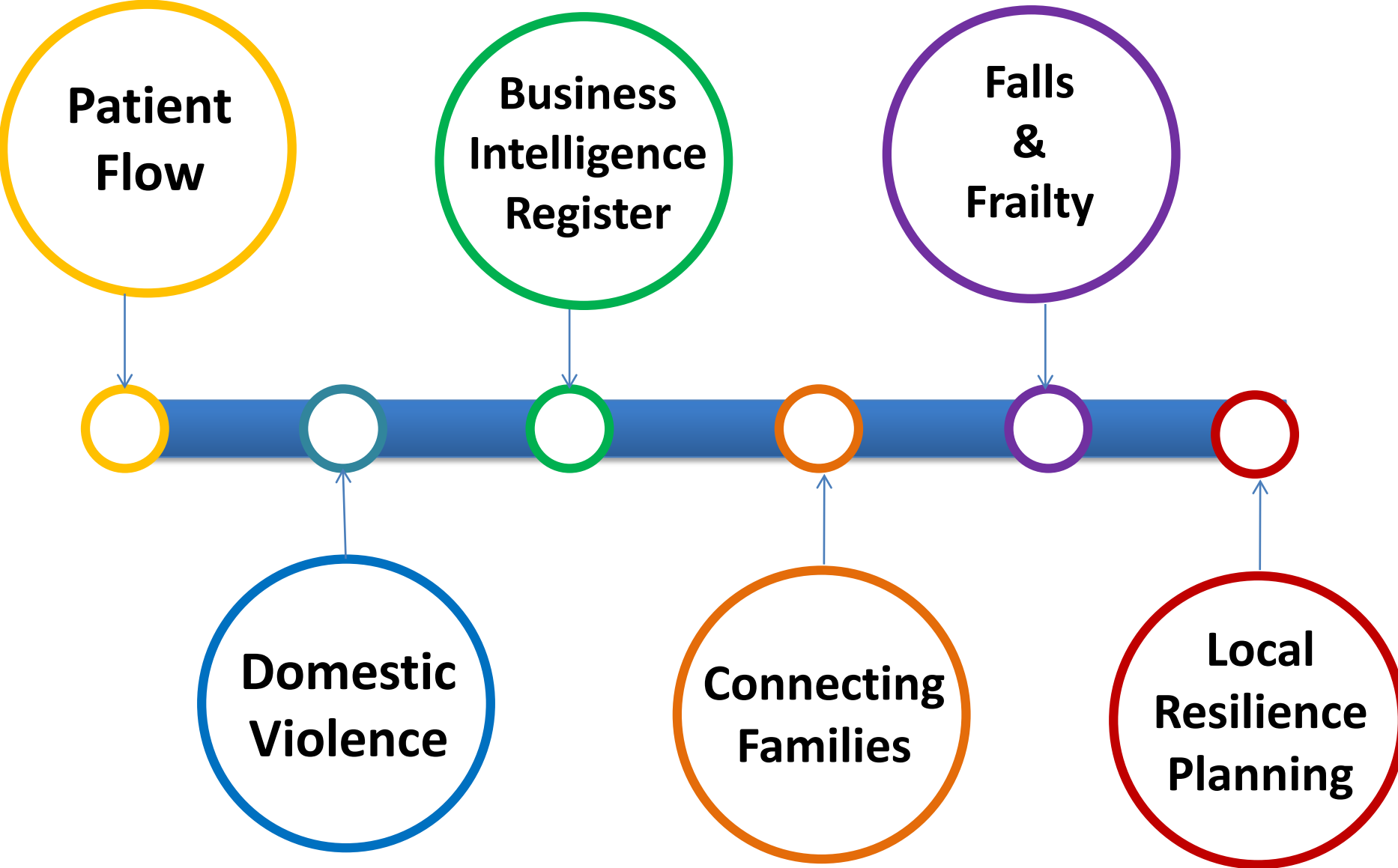
#woda

@neillcrump

Worcestershire Office of Data Analytics (WODA) Journey



6 WODA pilot use cases



Use cases – what we were asked to prove

Is it possible to link systems?

Use cases – what we were asked to prove

**Does data sharing have a
positive impact on vulnerability?**

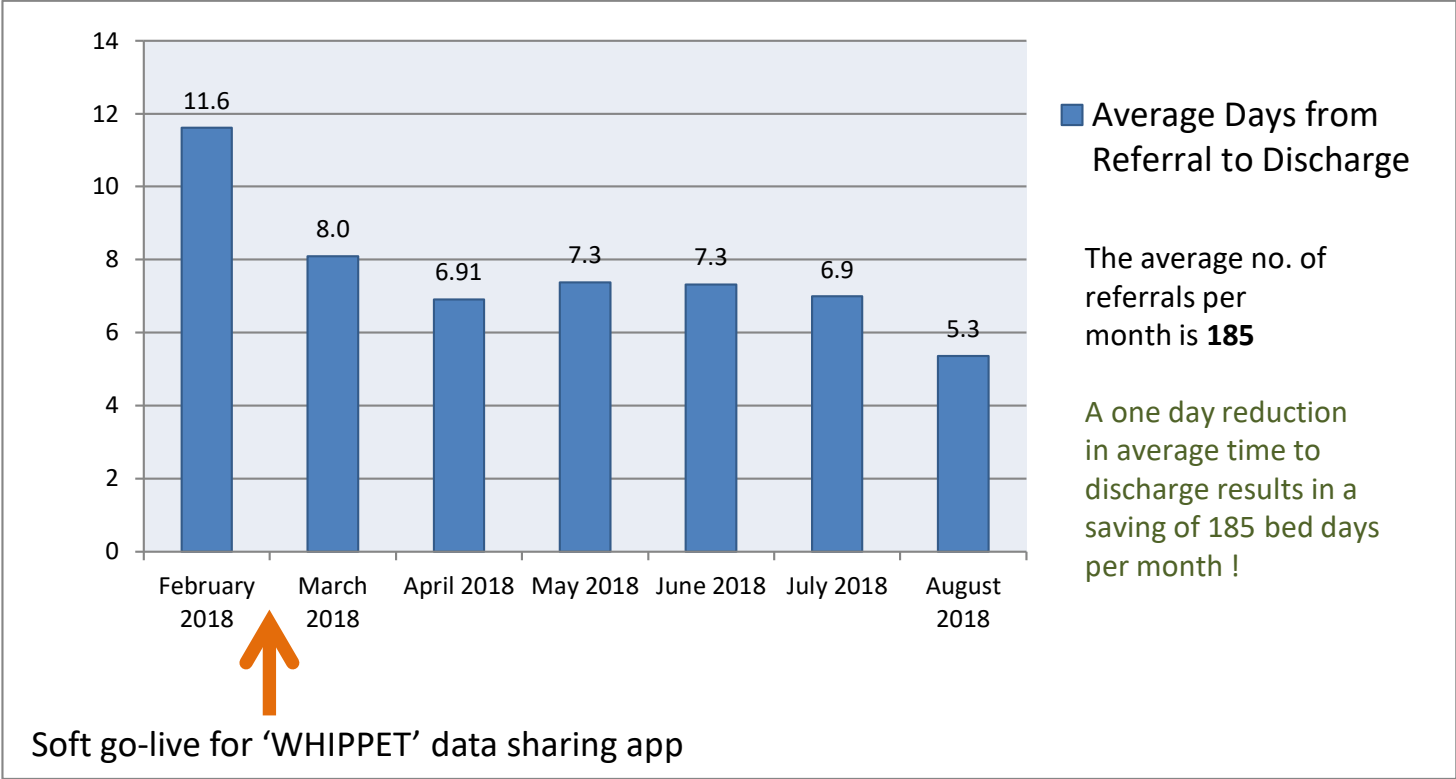
Use cases – what we were asked to prove

**Does data sharing provide benefits
across the breadth and variety of
Worcestershire public services?**

Patient flow use case

Key Headlines:

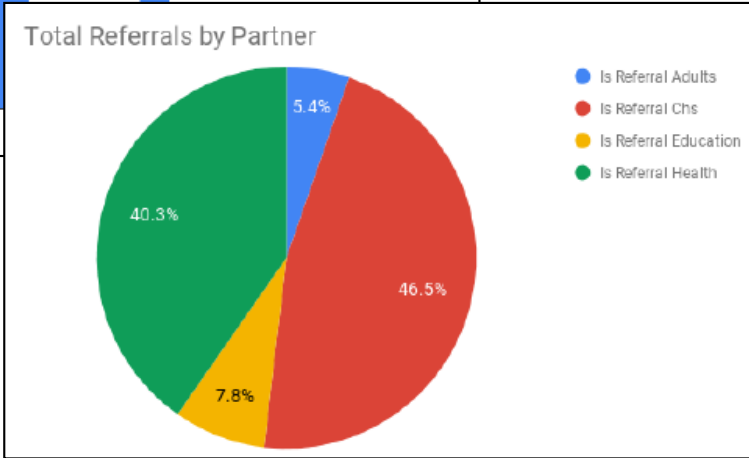
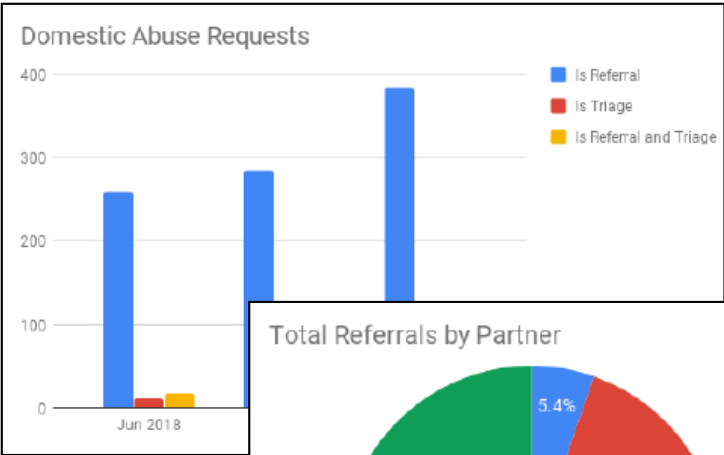
- Reduction of 2.7 days for the referral to discharge pathway. Using average bed day cost for 2015/16 of £306 per day, this equates to cost avoidance of £153,000 per month
- Excludes any other positive impacts such as reduced social care costs due to higher likelihood of people retaining independence due to less days in hospital and lost productivity to Worcestershire businesses



Other notes:

The figure for February may be artificially high due to Winter pressures
Other factors / initiatives may affect figures shown

Domestic Violence use case



Falls & Frailty use case



Multi agency data sharing



Cost avoidance



Health & Wellbeing



Vulnerable People



Information Governance

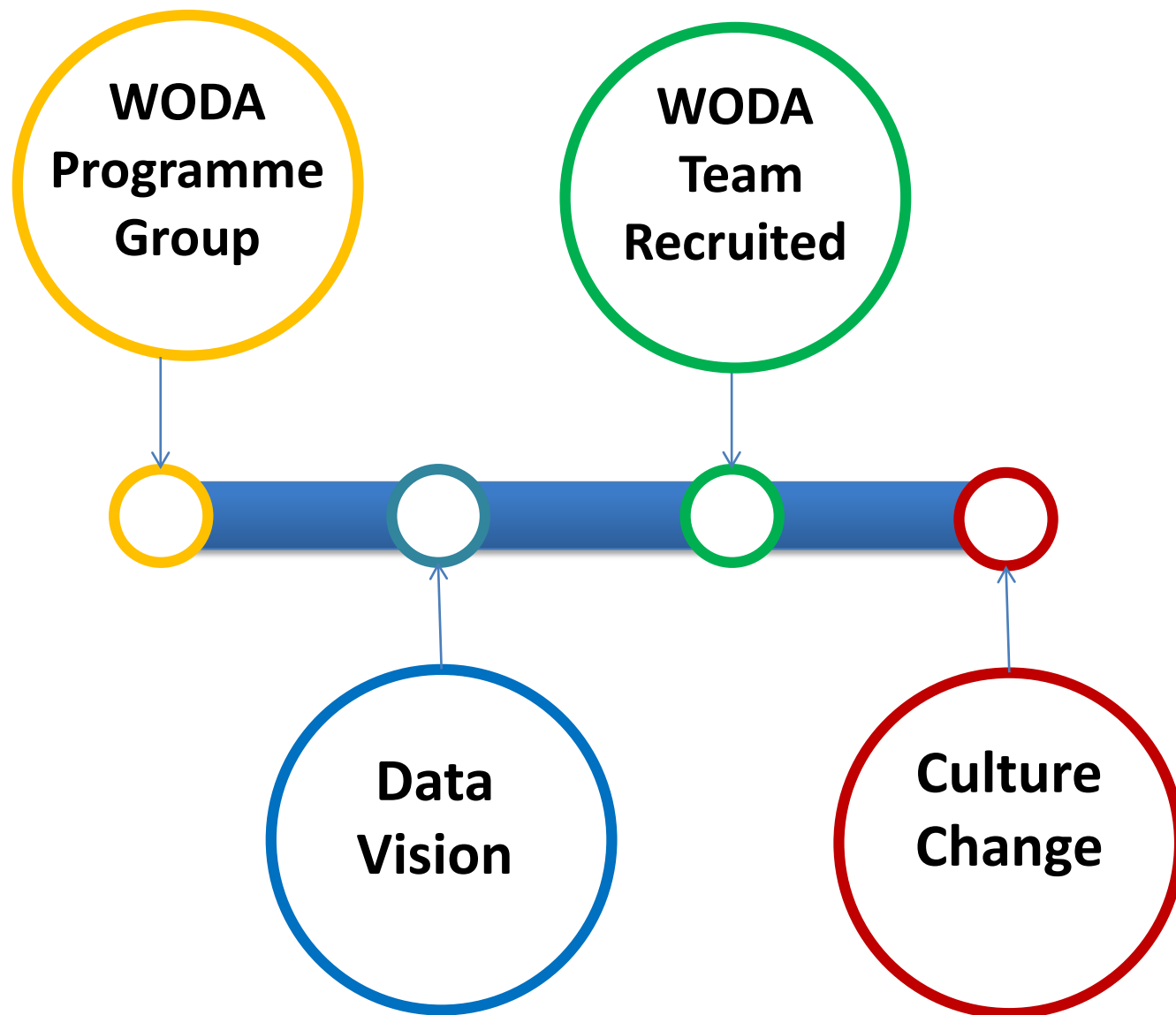


Feedback from a GP Practice Manager

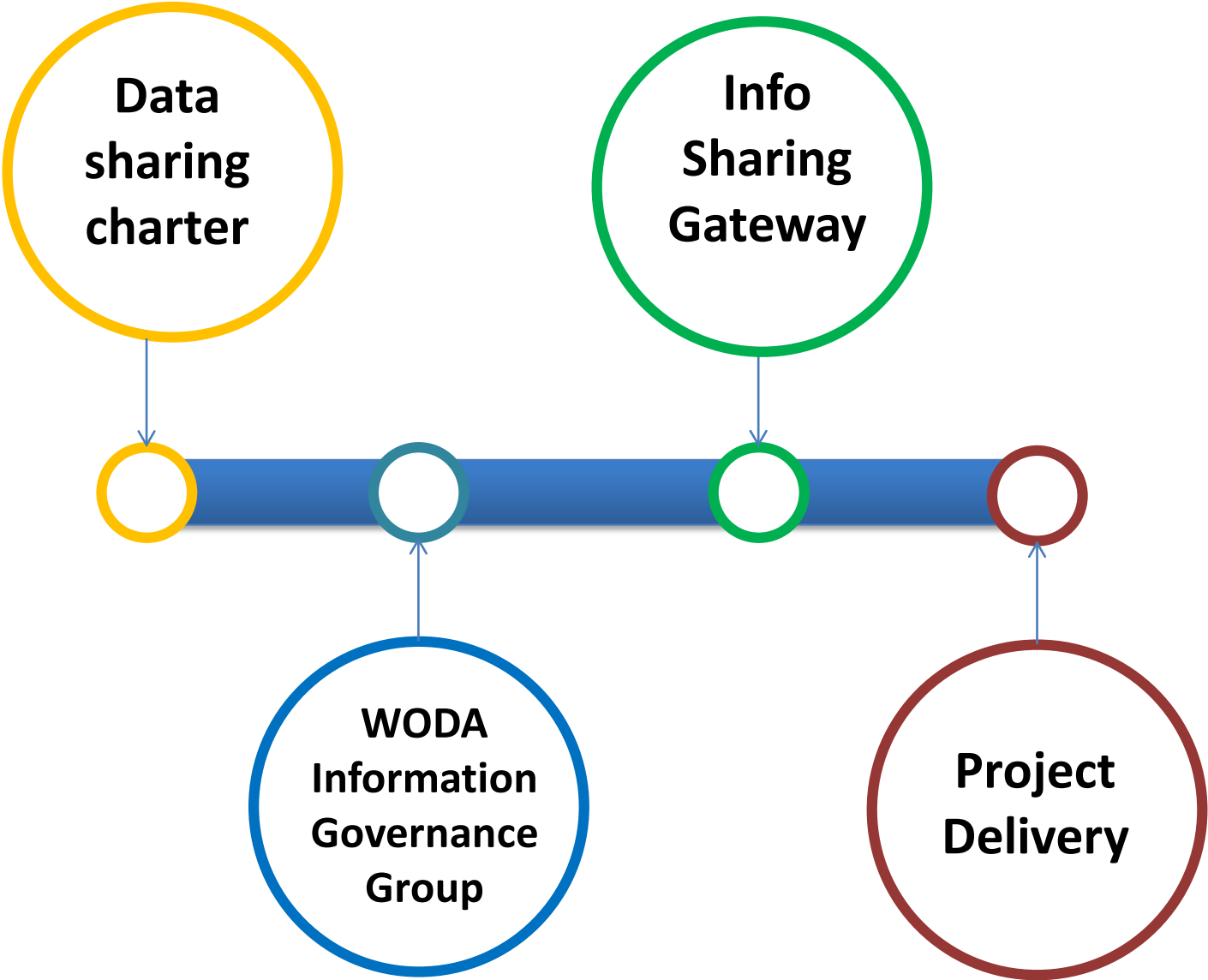
'As part of the Fire Service pilot I was invited to shadow one of the technicians for the day that carried out the safe and well checks with the patients. The Fire Service technician not only carried out a risk assessment of the patient's safety at home but also gave them simple hints and tips to reduce things like trips and falls and how to improve security and fire hazards. Patients were also signposted to services relevant to their needs.

I believe that this initiative is a great opportunity to work collaboratively with other Agencies to help re-direct patients to services other than GP or Hospital appointments and therefore indirectly create more patient access in Primary and Secondary Care.'

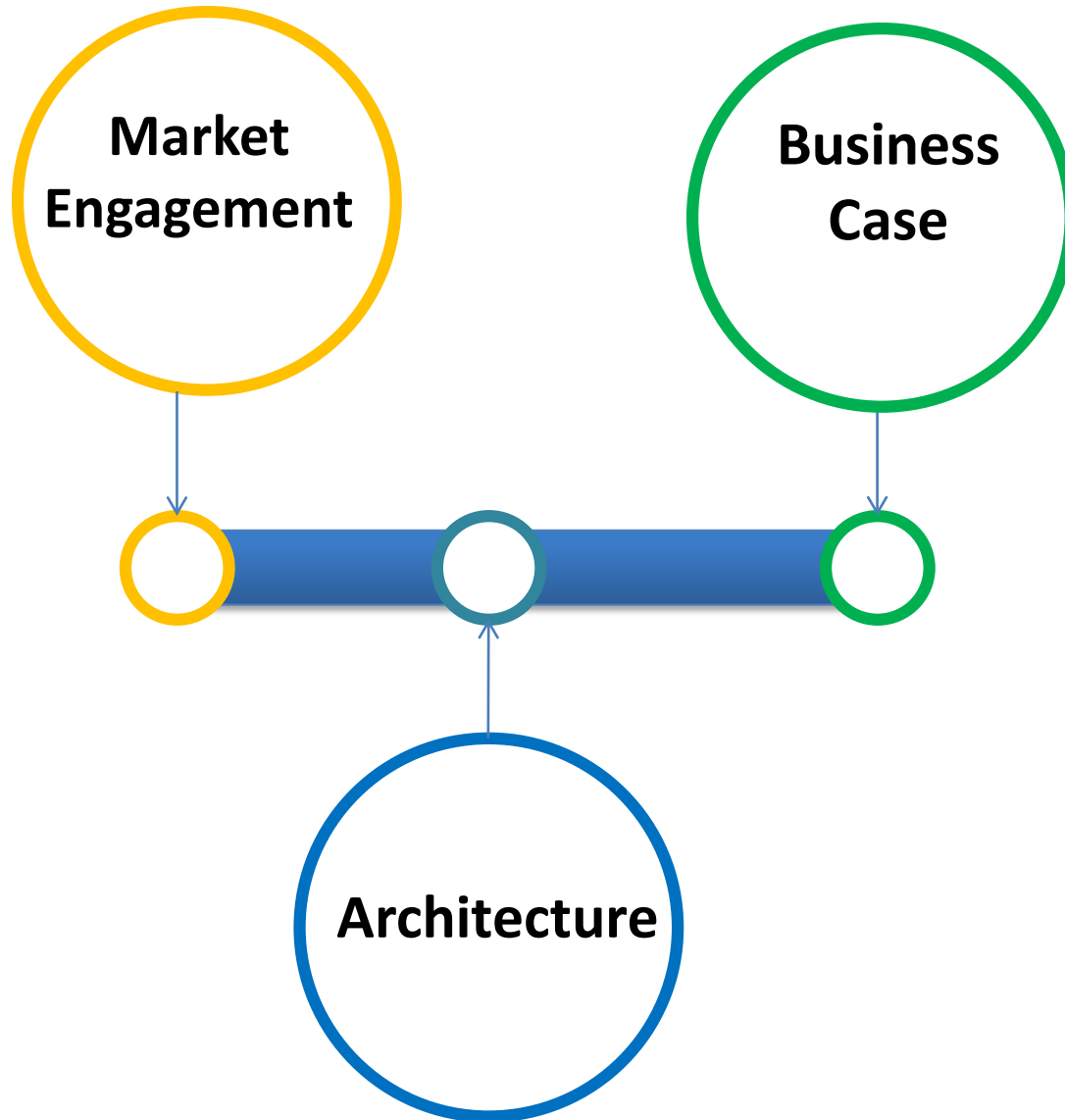
Other key achievements by WODA - Governance, Structure & Culture Change



Other key achievements by WODA – Information Governance



Some other key achievements by WODA – Market engagement, architecture and business case



Use cases – what we were asked to prove

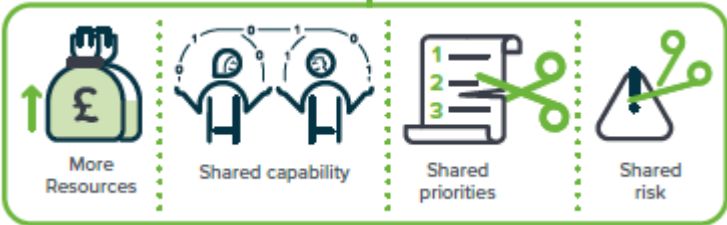
- ✓ Is it possible to link systems ?
- ✓ Does data sharing have a positive impact on vulnerability?
- ✓ Does data sharing provide benefits across the breadth and variety of Worcestershire public services?

<https://sway.office.com/SpepuK7Url62chlX>

Our funding model – local, national, and commercial

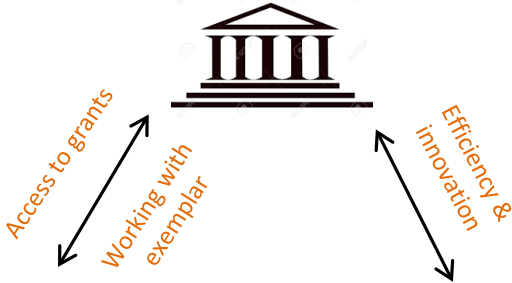


COLLABORATIVE PARTNERSHIPS



National Bodies & Not for Profit

For example: Social Finance, MHCLG
National Analytics Forum,
NHS England, NHS Digital



WODA

Private Sector

Companies who will invest in WODA: For example - Civica, CSU, Black Pear



invest in WODA, people & technology

Scaling Strategy



Operating Model

Info broker

Projects

Insight Service

Scalability



Culture Change

WODA Capabilities

Worcestershire & external partners - capacity / capability gaps

WODA Capabilities

Orchestration

Orchestration of individual disciplines – Leadership, Frameworks, Culture, Change and Communications
Focus on delivering services for our current and future population needs

WODA Programme Group

WODA IG Group

Engagement with External Partners

Digitalise Multi-Agency Pathways

Run Events with Data Champions

Common Technology Requirements

Common standards & gateways

Change & Communications

Direction

Define priorities, impact, and risk

Enablement

Work in partnership to deliver capabilities and capacity

Strategy Management

Value Management

Risk Management

Information Governance (IG)

Program/Project Management

IT Data Management

Business Analysis & Change Management

Data Science / Insights

Design Business Vision

Baseline Analysis

Strategic Risk Assessment

Information Broker

Planning and Governance

Application Datasets & Interoperability

Person & Business Centred Data Models

Data Identification & Acquisition

Creation of Business Cases for Change

Value Estimation

Assess Transformation Business Case

Information Sharing Gateway Admin

Program & Project Integration

To-be & Gap Analysis

Map Selected Processes

Load, Clean and Transform Data

AS-IS Data Collection

Detailed Business Case

Define Risk Strategy

Info Sharing Agreement Creation

Scope Management

Data Management Roadmap

Plan Process Implementation

Deliver Analytics Prototype

Common Demographic Mapping

Plan And Execute Benefit Realisation

Risk Management Execution

Privacy Impact and Notice Creation

Resources & Cost Management

Technical Architecture Plan

Stakeholder Management

Test, Iterate and Refine

Analysis of Needs & Maturity Level

Review and Evaluate Results

Identify Additional Improvement

GDPR Assurance & Public Engagement

Procurement Management

Solution Architecture Plan

Data Champion Network

Define Actions with Stakeholders

Integrated Transformation Plan

Establish Potentials for Further Benefits

Risk Monitoring

Information Asset Registers Consolidation

Delivery, Reporting and Analysis

IT Lifecycle Management

Communication Management

Turn Data into Action

Example Digital / Data Techniques

Digital Pathways

Data Science & Analytics

Spatial Analysis

Business Intelligence & Visualisation

Our vision – central, integrated service for data analytics on digitalised multi-agency pathways

1

Partners across Worcestershire deliver service redesign by digitalising their multi-agency pathways and collecting transactional data

2

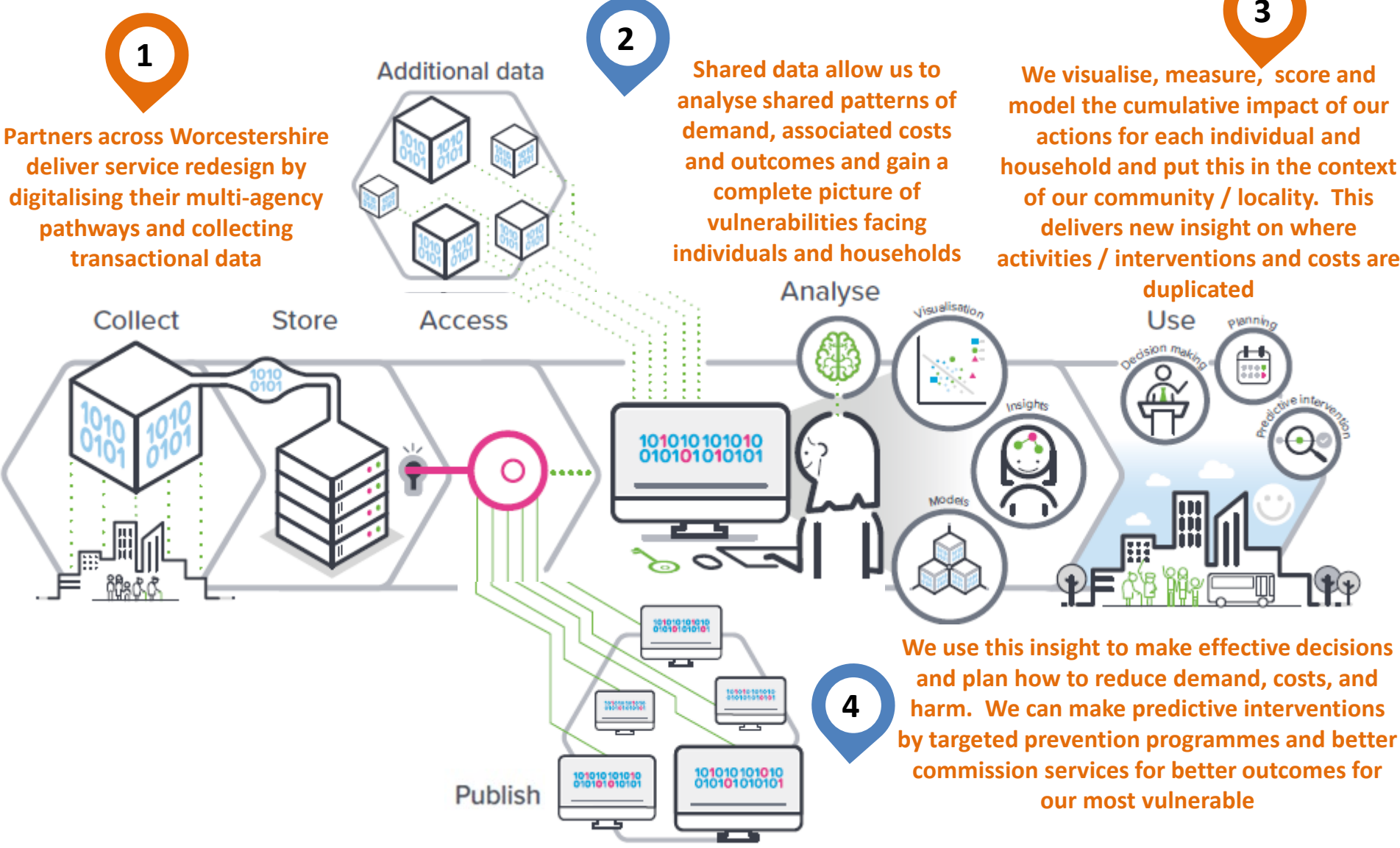
Shared data allow us to analyse shared patterns of demand, associated costs and outcomes and gain a complete picture of vulnerabilities facing individuals and households

3

We visualise, measure, score and model the cumulative impact of our actions for each individual and household and put this in the context of our community / locality. This delivers new insight on where activities / interventions and costs are duplicated

4

We use this insight to make effective decisions and plan how to reduce demand, costs, and harm. We can make predictive interventions by targeted prevention programmes and better commission services for better outcomes for our most vulnerable



You don't know what you don't know