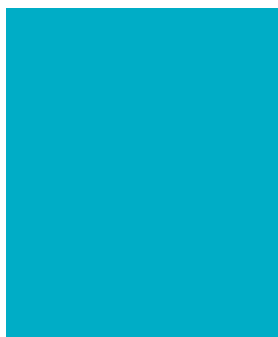




Opportunities to bring about transformational change: Role of Information

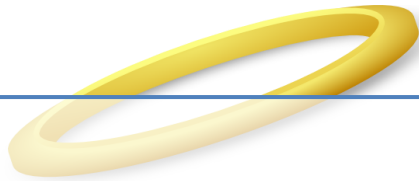
Jeremy Martin, Symphony Project



Summary

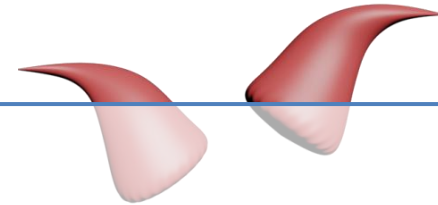
- NHS has both the **boon** of having one of the best set of raw electronic data for patients, and the **bane** of not being able to use it optimally
- Evidence from **local efforts** – and **Jeremy Martin** from Somerset will take us through that – within the UK suggest this is **imminently doable**, and there is no reason that should be holding us back

The boon & bane of patient data in NHS



NHS number – the unique identifier that can link all care across settings at a patient level

Unrivalled data and **highest penetration of use of electronic data records** across settings anywhere in the world



Current Information Governance rules make it **hard to share**

Data quality is not always good, and compatibility issues

Big **NHS and Social care divide**

5 core uses of connected patient data

Purpose / Use

Example applications

Patient empowerment

- Access to own medical record, care plan, activity history, patient level outcomes etc.
- Patient goal setting and compliance

Better care coordination

- Event notification (eg for A&E, or NELIP admission)
- Care coordination & work flow planning across providers
- Tailored care plans and integrated care

Improved clinical decision making

- Visibility of care records, care plans, medicine and other condition specific information from across care settings at the point of delivery
- Pro-active management of long term conditions e.g., through use of risk stratification and patient segmentation

Better System design

- Understanding current and future population needs and future demands and changing care provision to match need
- Transparency and tracking of outcomes at a pathway and provider level

Payment innovation

- Linking payments to outcomes at a provider level
- Designing capitated payment models
- Risk sharing between providers
- Contract design and incentive alignment

SYMPHONY

Person-Centred Coordinated Care



- **Jeremy Martin, Project Director,
Symphony Project, Somerset
Clinical Commissioning Group**

SYMPHONY

Person-Centred Coordinated Care



Somerset Clinical
Commissioning Group



Somerset
Partnership



Yeovil District Hospital **NHS**

NHS Foundation Trust



Dorset Clinical Commissioning Group



Bristol, North Somerset, Somerset and
South Gloucestershire Area Team



South West Commissioning Support



Aims

- Understand current patterns of utilisation and cost
- Understand what drives these patterns
- Develop an approach to decide which group to target
- Develop method to calculate shared budget and impact on each organisation
- Develop approach to tracking and evaluation

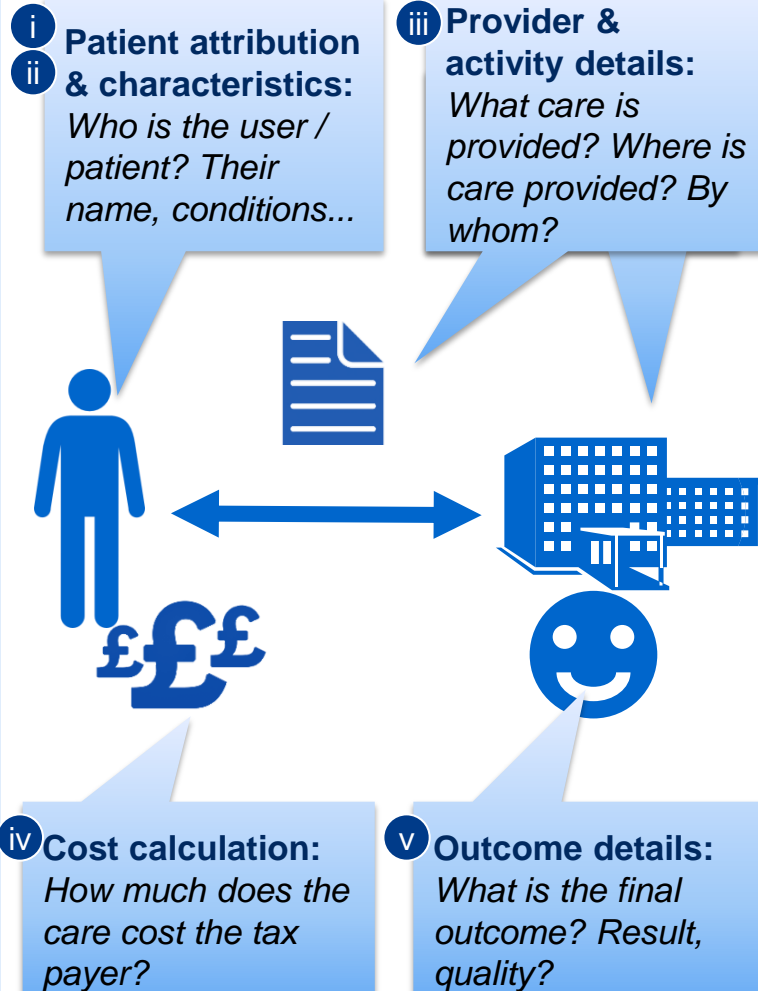


The Data-Set




- Fully pseudonymised
- South Somerset GP Federation (109,000 patients)
- Majority of activity and cost at patient level for:
 - Primary care
 - Community hospitals
 - Mental health (community and inpatient)
 - Acute
 - Social care
 - Continuing health care
- Age, sex, clinical conditions, ward of residence
- It's evolving

10 design elements of connected datasets

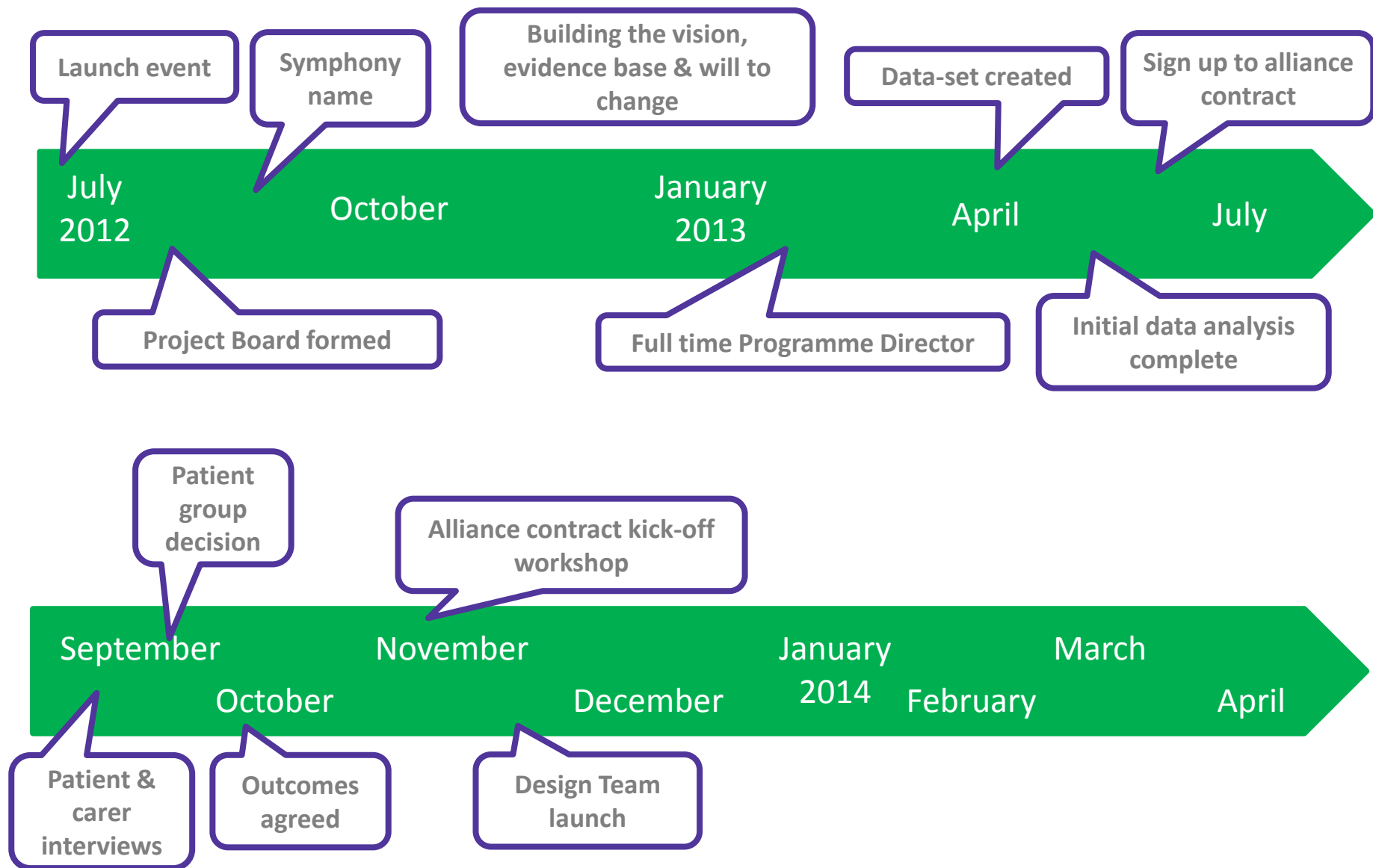
Every time care is delivered to an individual various kinds of information is generated



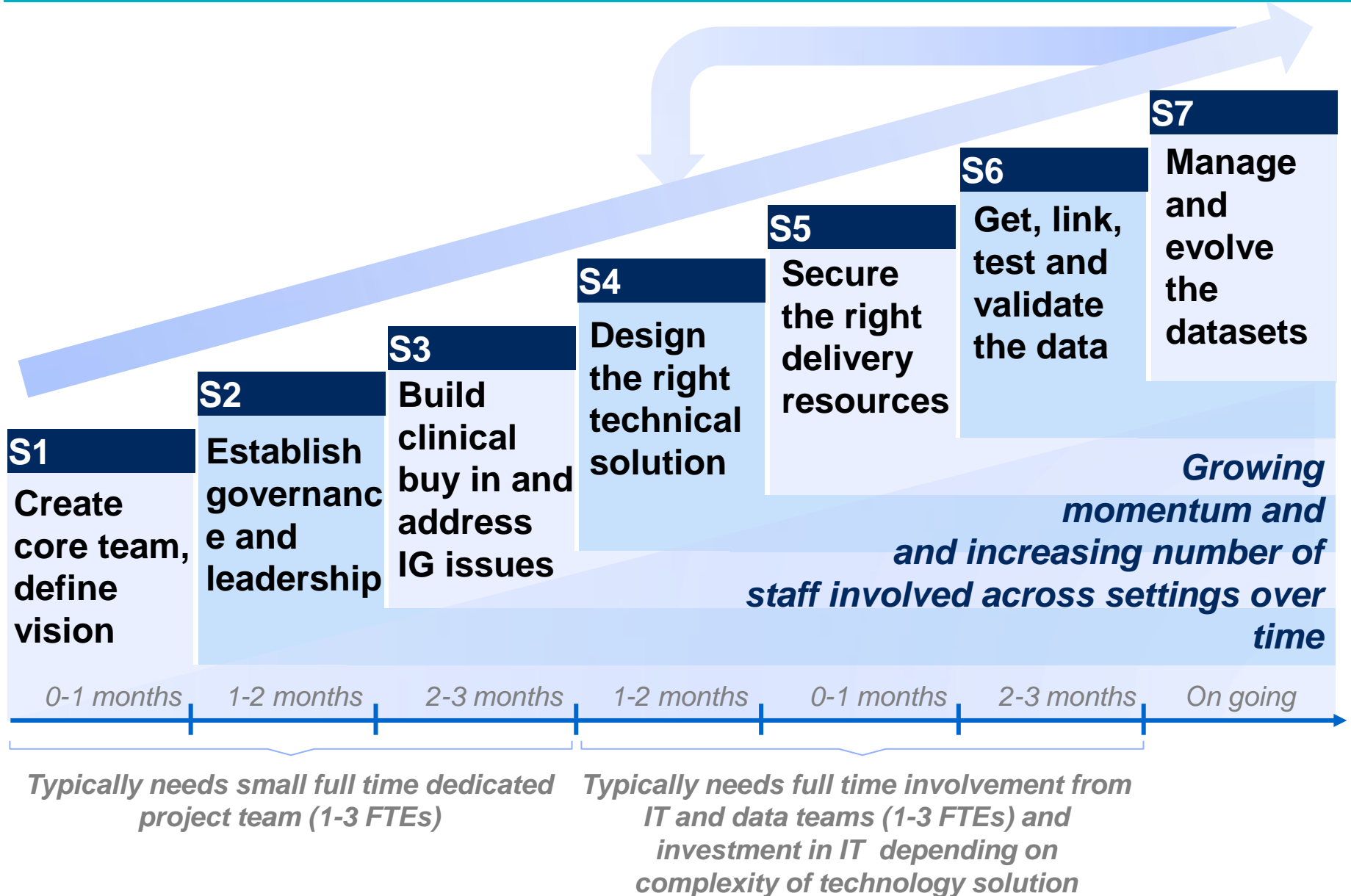
Creating PLLD involves capturing this information for all interactions and linking them at a person level

- vi Time period covered:** *For as long a time period as appropriate and necessary* 
- vii Frequency:** *As soon after the interaction as possible* 
- viii Safety and IG Compliance:** *In an IG compliant manner* 
- ix Technology solution:** *Using an appropriate technology solution*
- x Scope**
 - Settings covered:** *For as many providers as possible* 
 - Patients covered:** *For as many individuals as possible* 

Timescale

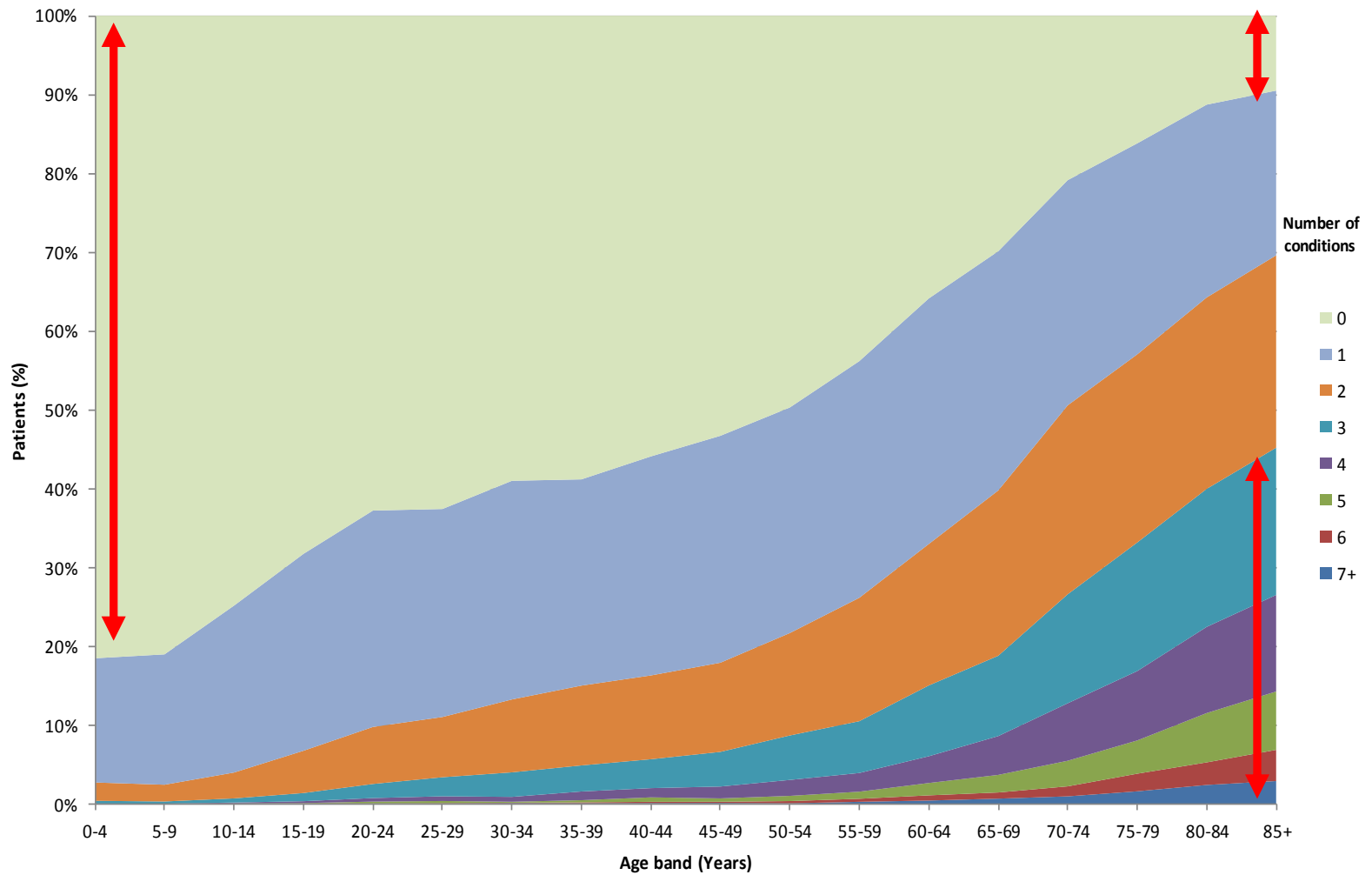


Generic 7 step process





Morbidity (number of ETGs) by age band

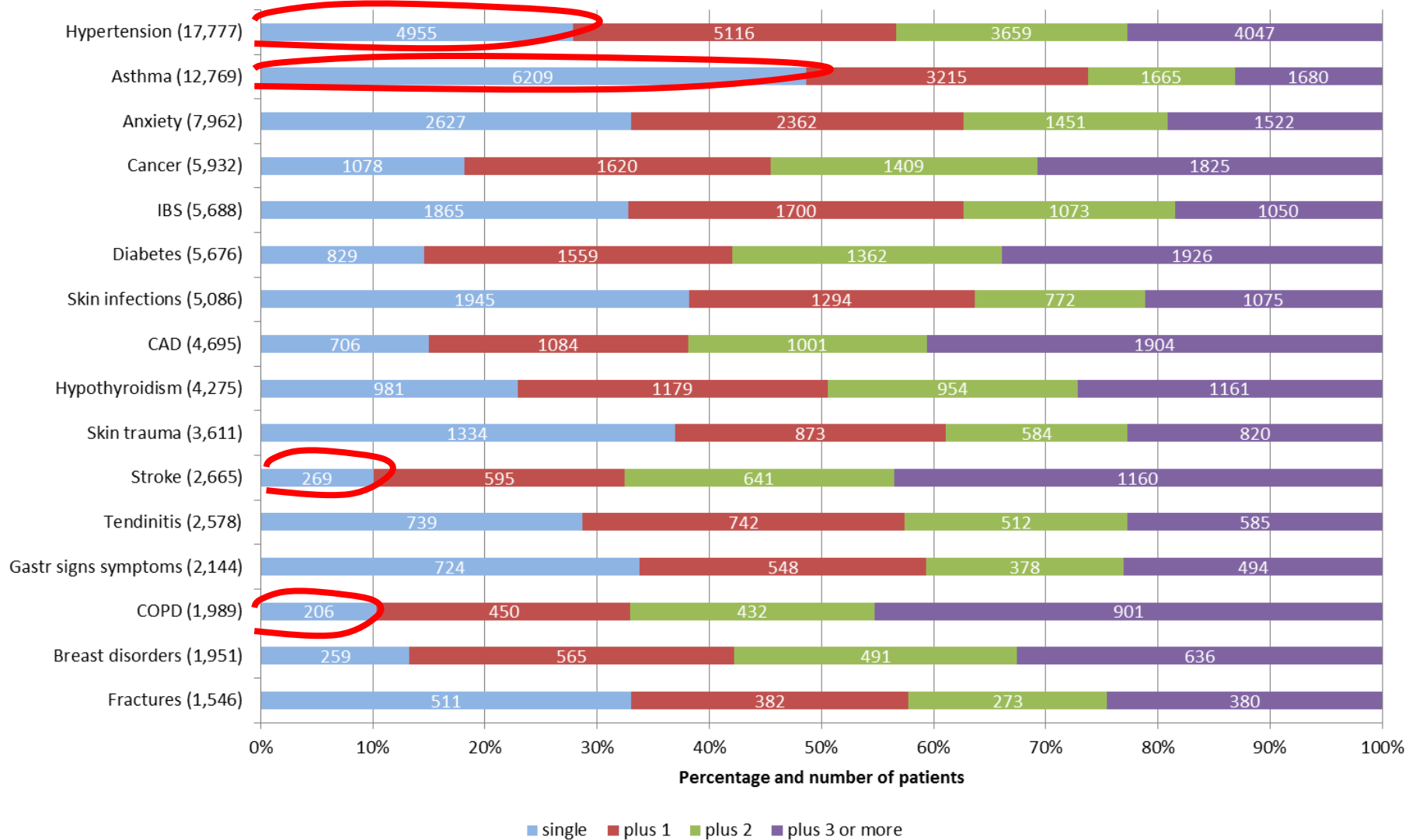




Regression variables	Age	Number of conditions	Age, Number of conditions
Variation explained	3.36%	18.76%	19.30%

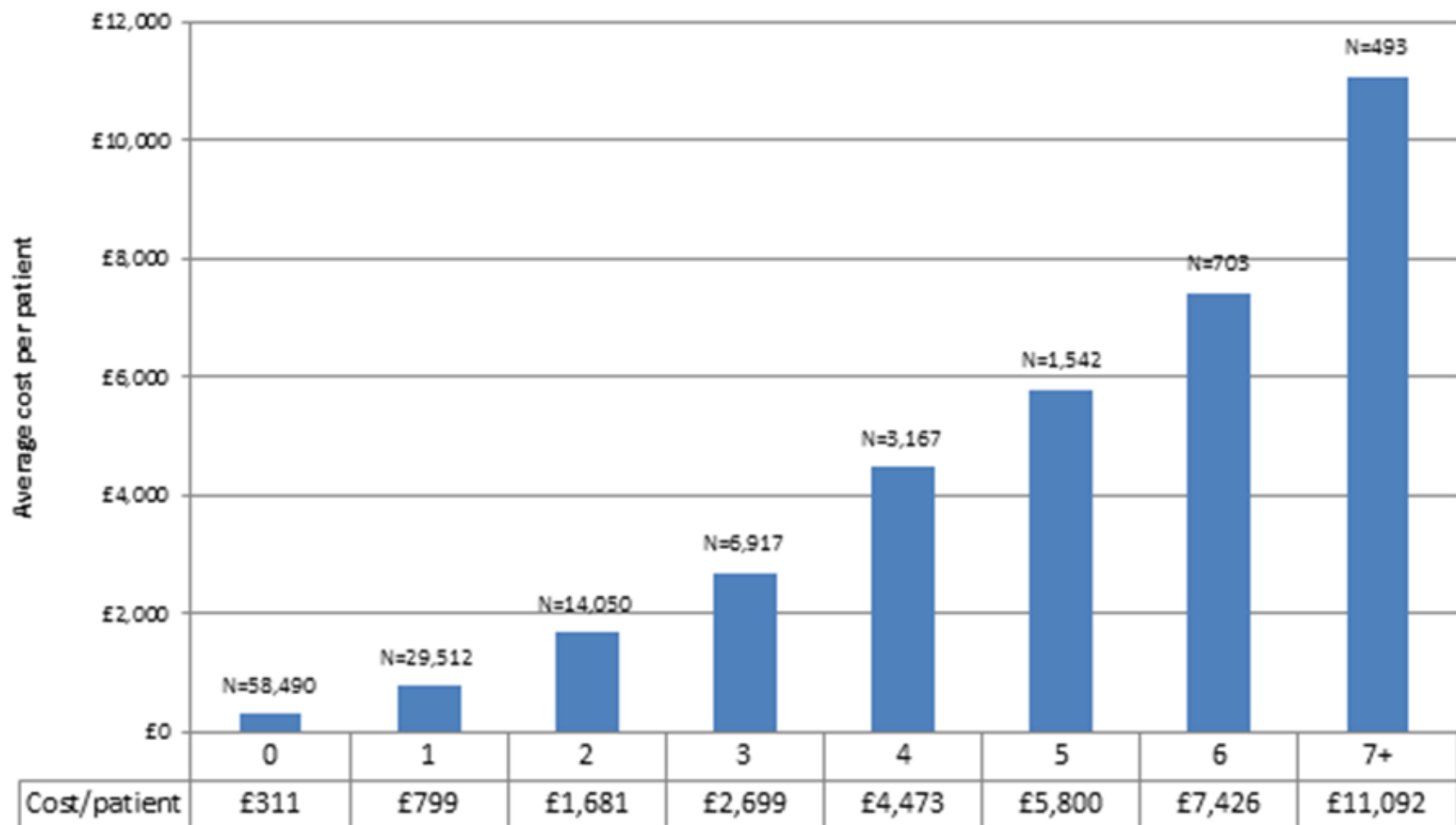


Patients with one and multiple ETGs



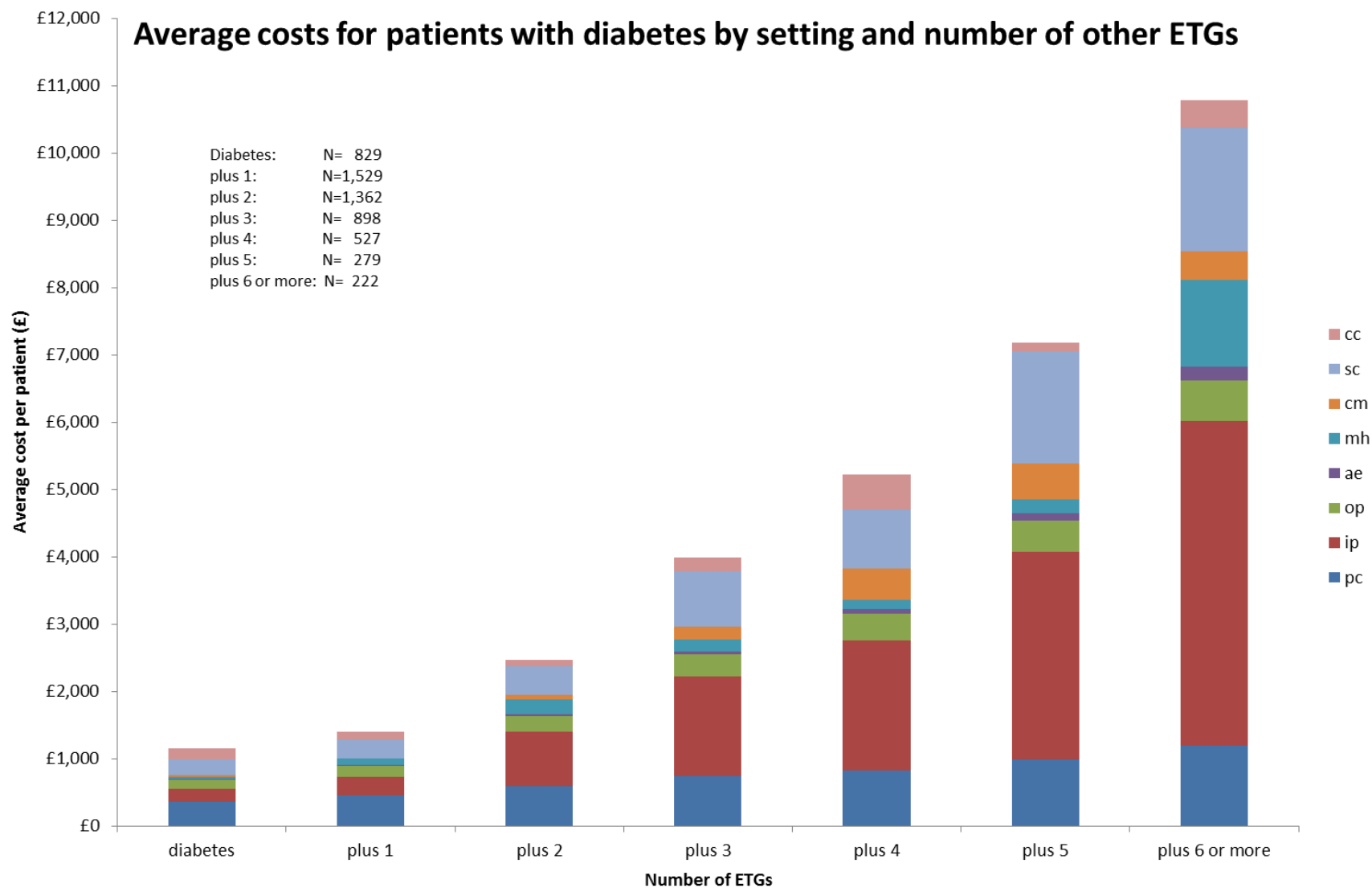


Average cost per patient by number of ETGs





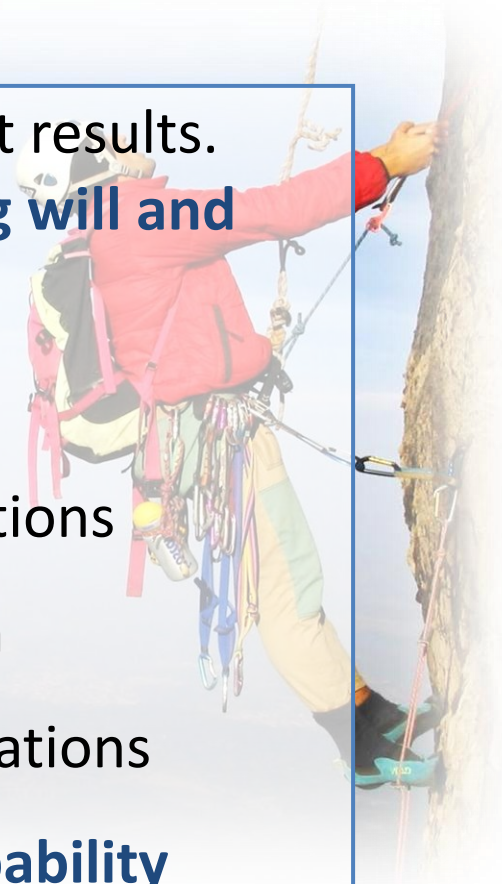
Average costs for patients with diabetes by setting and number of other ETGs



Learnings & success factors

Minimum 6 month journey from start to first results. 12-18 months overall. Requires both **undying will and skill**

- **Clarity of vision** and purpose
- **Chief Executive leadership** across organisations
- Complete **clinical buy in** from start to finish
- Exhaustive **Information governance** negotiations
- Significant **Investment in technology & capability**
- Distinguished **management and execution skills**



In summary...

System objectives, and killer applications

Person centred care

Patient empowerment

Better care coordination

Improved clinical decision making

Improved system working

Better system design

Payment innovation & financial management

Person level linked dataset (and its 10 core elements)

