



Durham
University

PREDICTIVE MODELLING FOR UNPLANNED CARE IN THE NORTH EAST AND NORTH CUMBRIA

Prof. Graham Towl
Dr Camila Caiado, Dr Ian Briggs



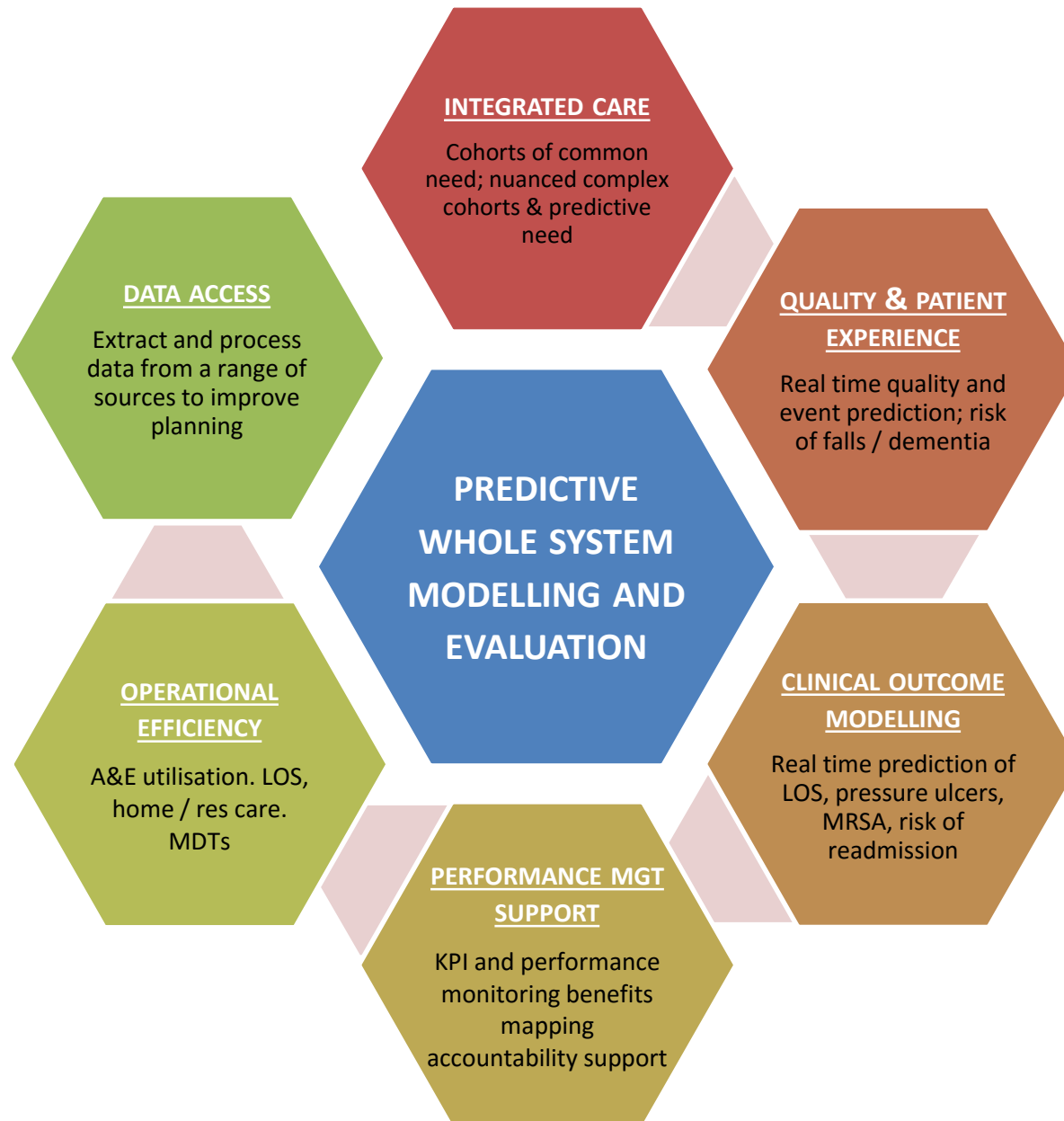
Great North
Care Record

PARTNER ORGANIZATIONS

- Durham University (DU)
- County Durham and Darlington NHS Foundation Trust (CDDFT)
- South Tees Hospitals NHS Foundation Trust (South Tees)
- South Tyneside NHS Foundation Trust (South Tyne)
- North Tees and Hartlepool Hospitals NHS Foundation Trust (North Tees)
- Northumbria Healthcare NHS Foundation Trust (Northumbria)
- Durham County Council
- Darlington Borough Council
- Darlington Clinical Commissioning Group
- HealthWatch
- NEAS



WHAT WE WILL NEED GOING FORWARD



County Durham and
Darlington CHC proposal

Infrastructure
development

- N3 connectivity for academia
- IG framework and gateway
- Collaboration agreements
- Analytics network
- Development plan

Analytical support
and evaluation

Unplanned care
prediction

- A&E predictive flow model development
- Cross site surge scenarios
- Bed & staffing risk models
- Operation mgmt. and support
- Primary care and NEAS

Improved access
and risk planning

Planned care and
HNT

- HNT planned care scenario and risk modelling
- Base lining & evaluation
- Commissioning and integrated planning support
- Workforce planning

Integrated planning
and evaluation

Pathway analysis

- Predictive analysis on two pathways: dementia and hard-to-reach groups
- Cohort identification and risk identification
- Self-management support

Improved care and
Pathway mgmt.