





Mr. Nathan Anderson – Medical student and graduate of emergency, prehospital and immediate care BSc.

Dr Andrew Carson-Stevens – Health services (patient safety) researcher and GP

Prof Maneesh Kumar – Professor at Cardiff Uni Business School

Dr Raj Krishnan – Associate Medical Director Patient Safety and Governance at Cardiff and Vale University Health Board

Prof David Slater – Professor in the School of Engineering at Cardiff

Mr. Amith Neelakantapuram – Researcher-in-Residence at Cardiffand Vale University Health Board

Dr Tim Ayres — Consultant emergency medicine physician at the University Hospital of Wales





Cav 24/7

Purpose built system
designed by clinicians with
the intention of reducing
overcrowding in the
emergency department.

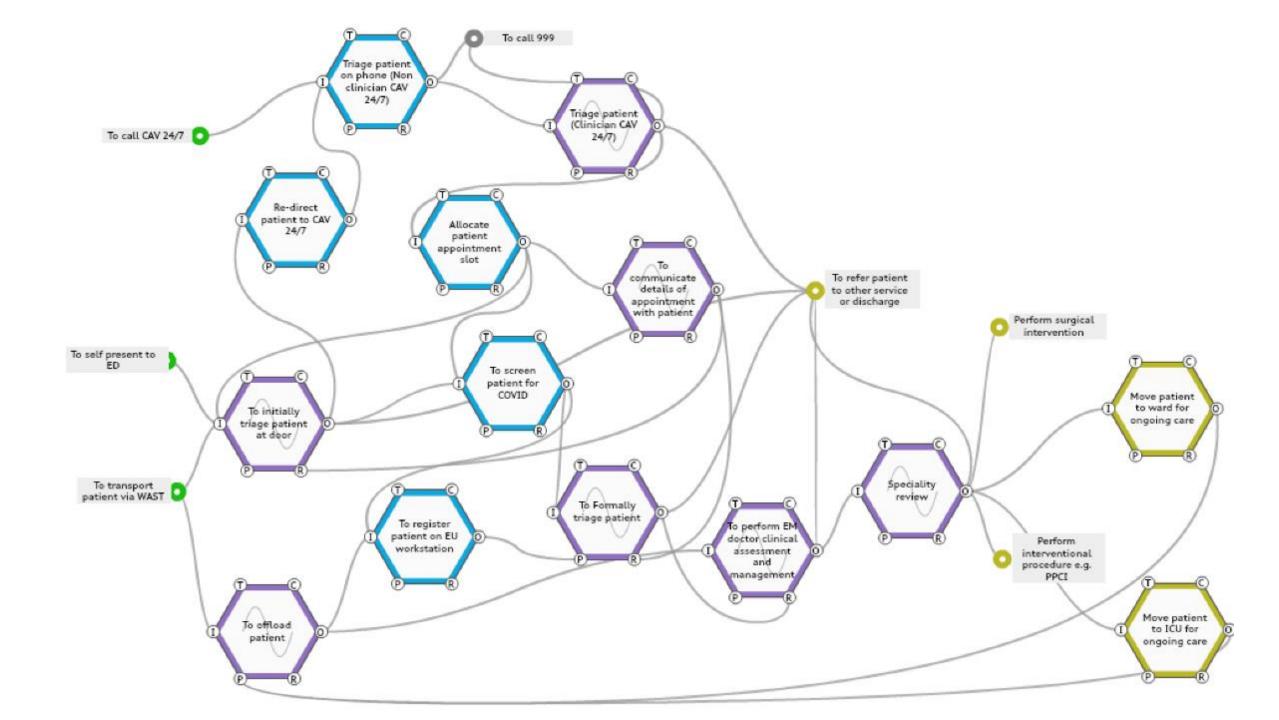
The way you access urgent health care is changing.

If you think you need to attend the Emergency Unit, and it's not life-threatening, Phone First.

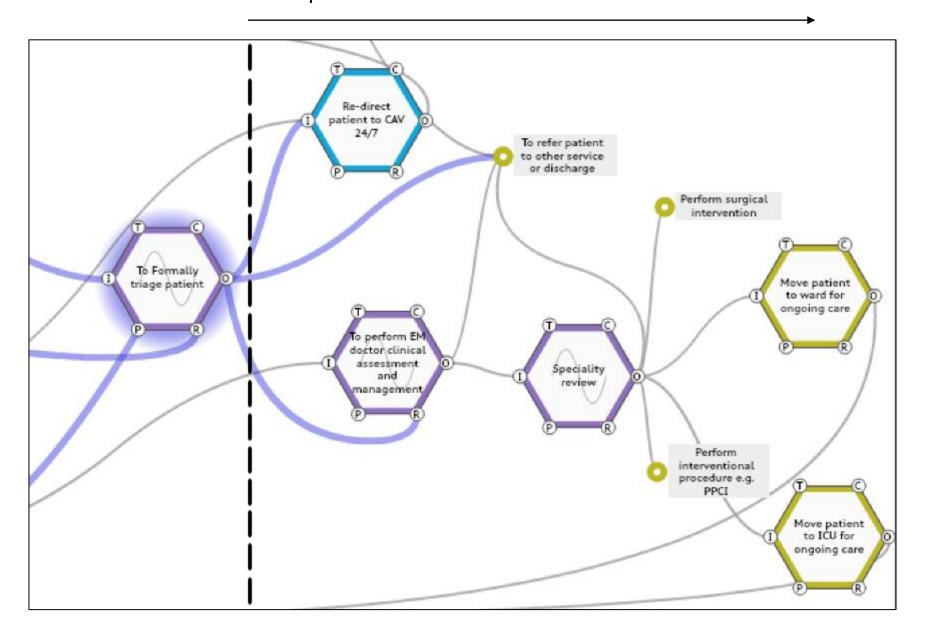
- Phone CAV 24/7
- Stay Safe
- Get directed to the right place, first time.

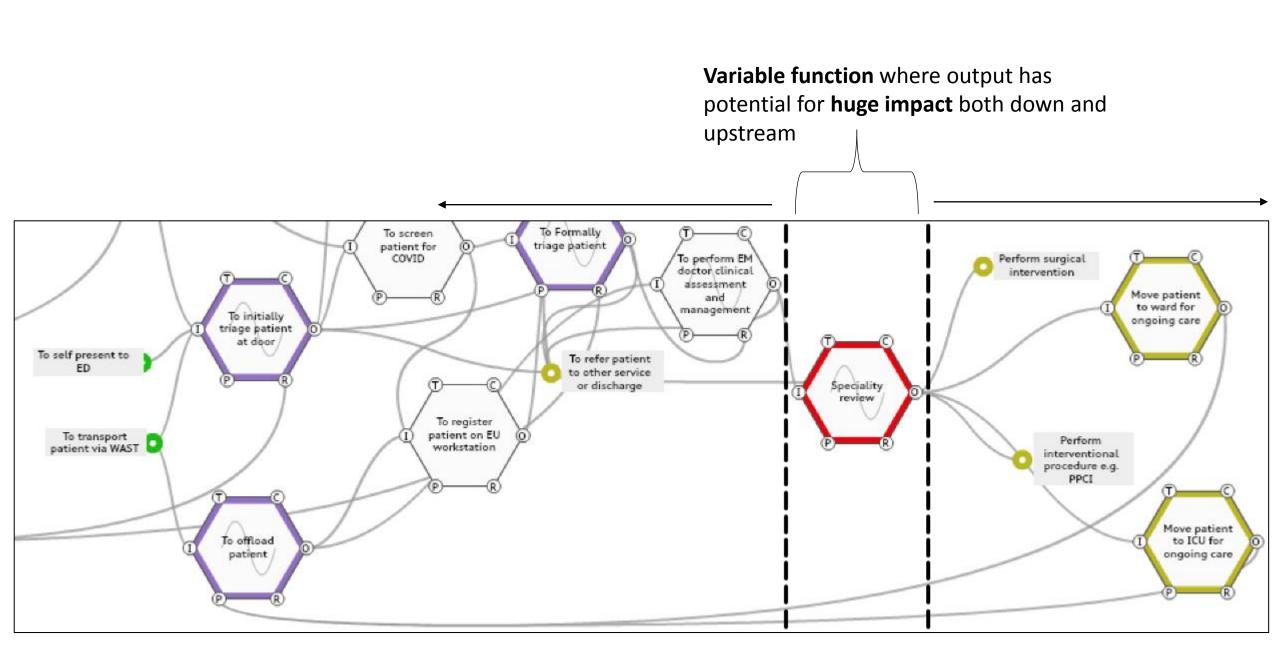


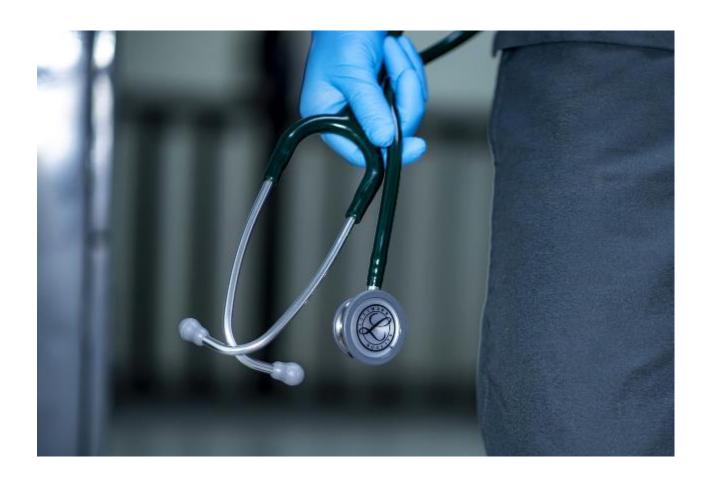




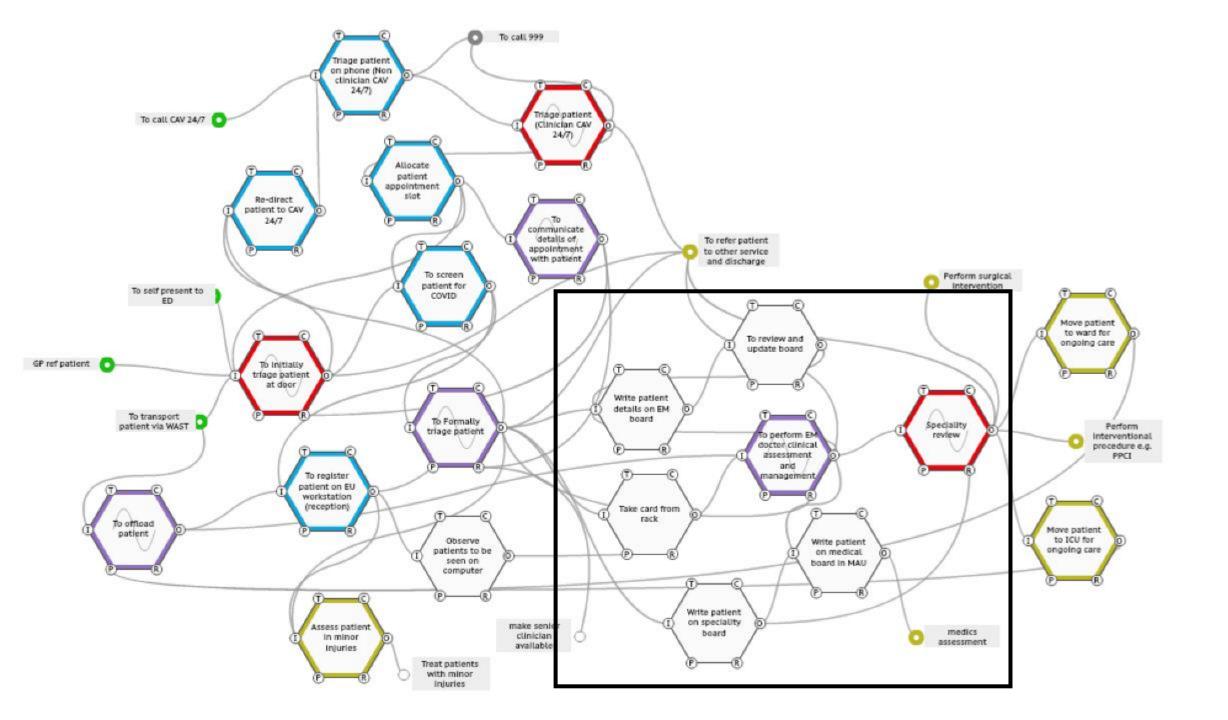
Highly variable critical step influencing multiple downstream functions

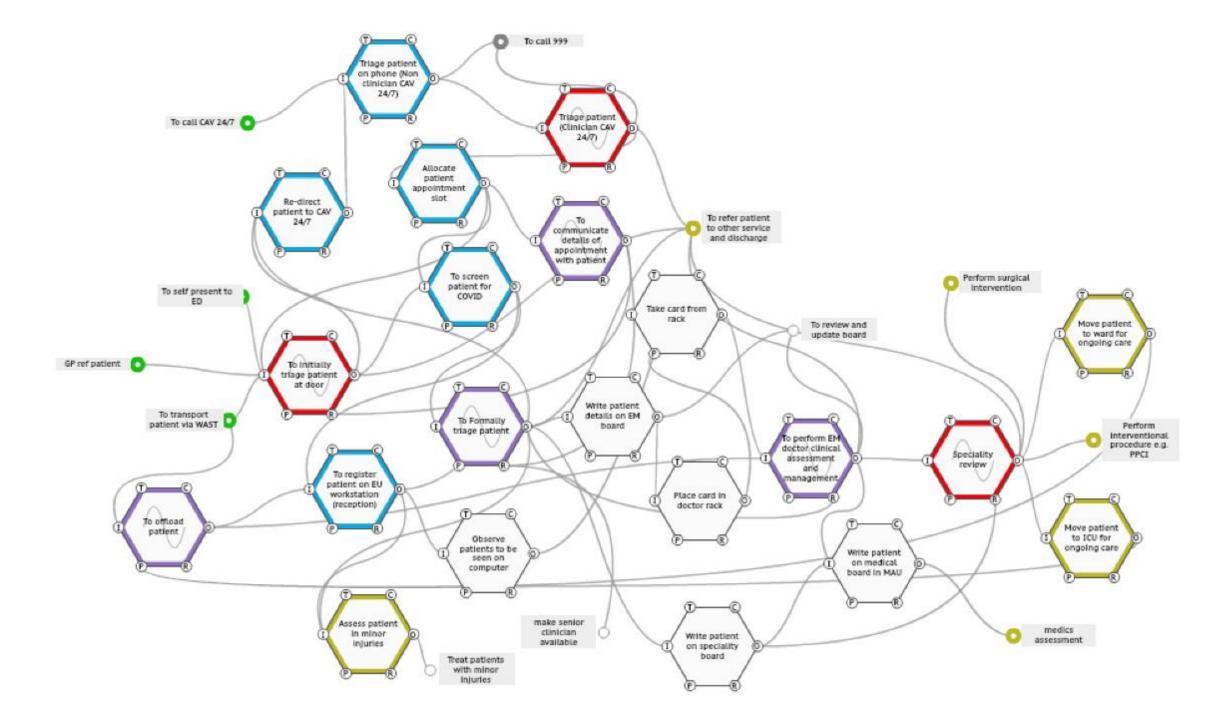


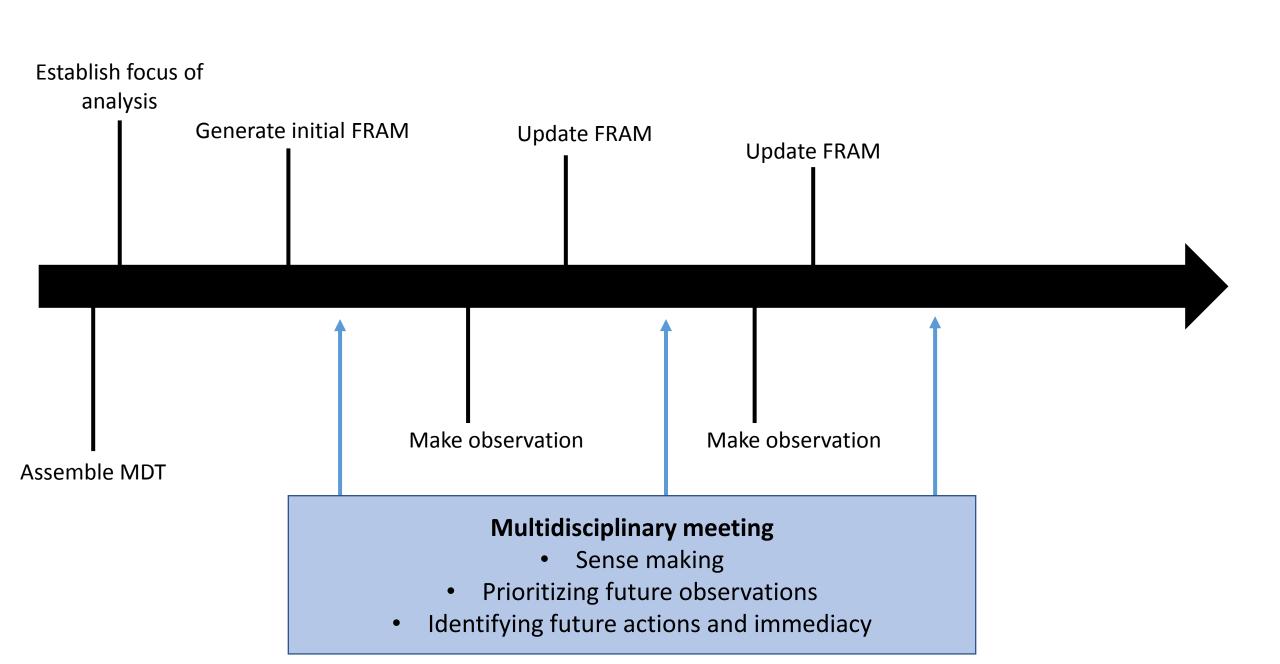












Three Enemies of Lean – Muda, Mura, and Muri

TIMWOODS

Transportation

Inventory

Motion

Waiting

Overproduction

Overprocessing

Defects

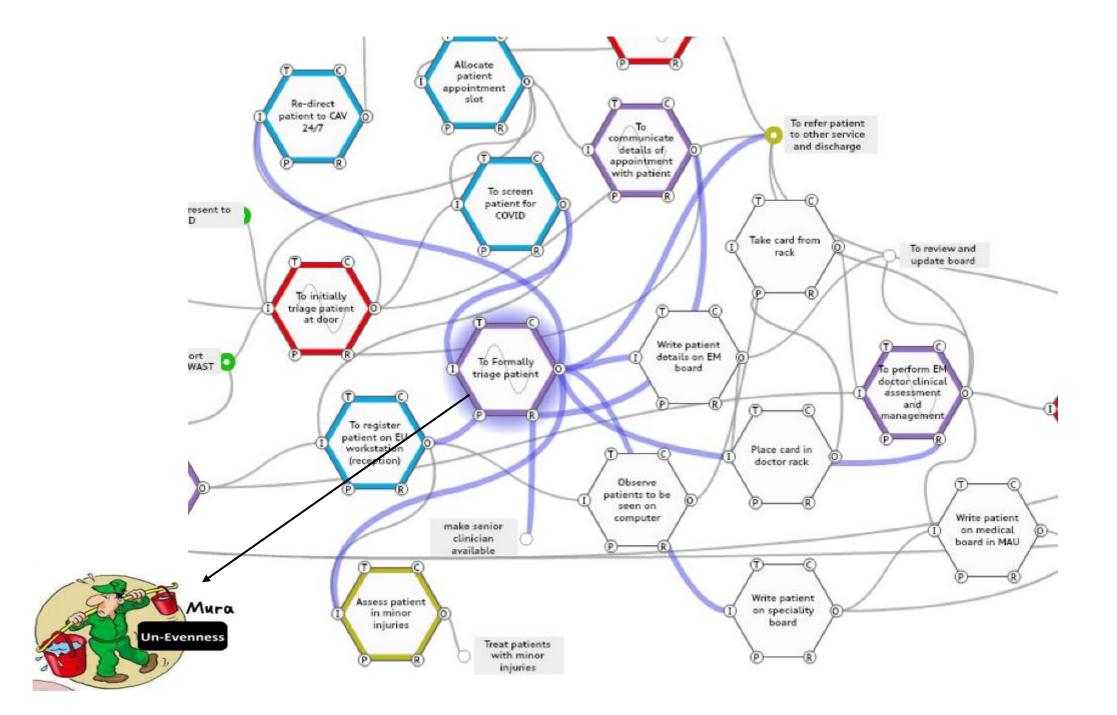
Skills Utilisations

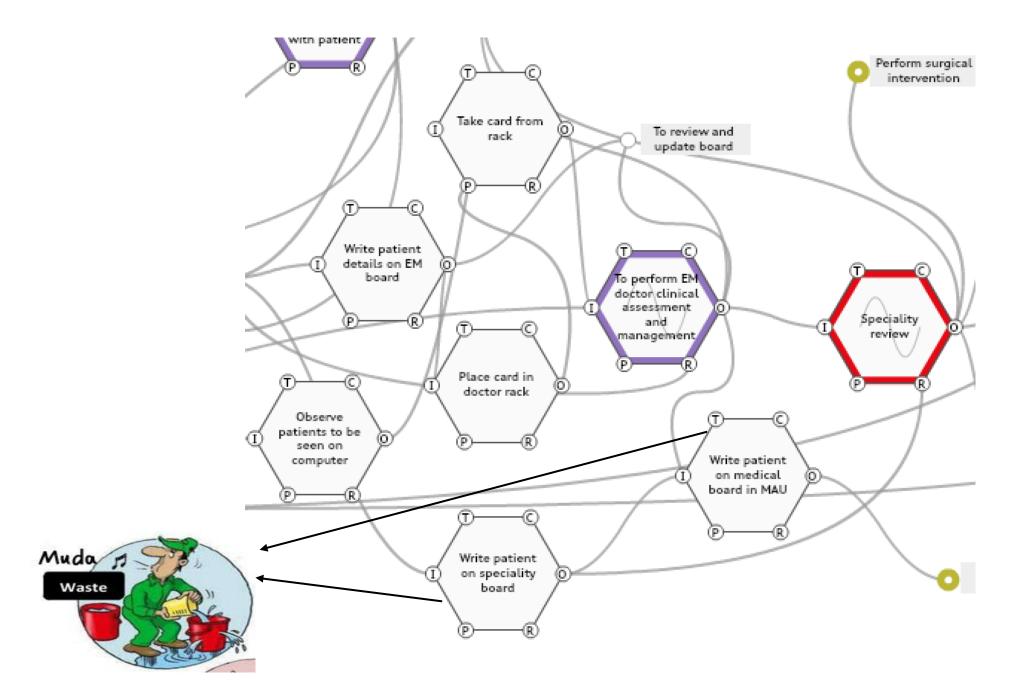


Variation, inconsistency, or irregularity in the Demand or way of working can only be buffered through:

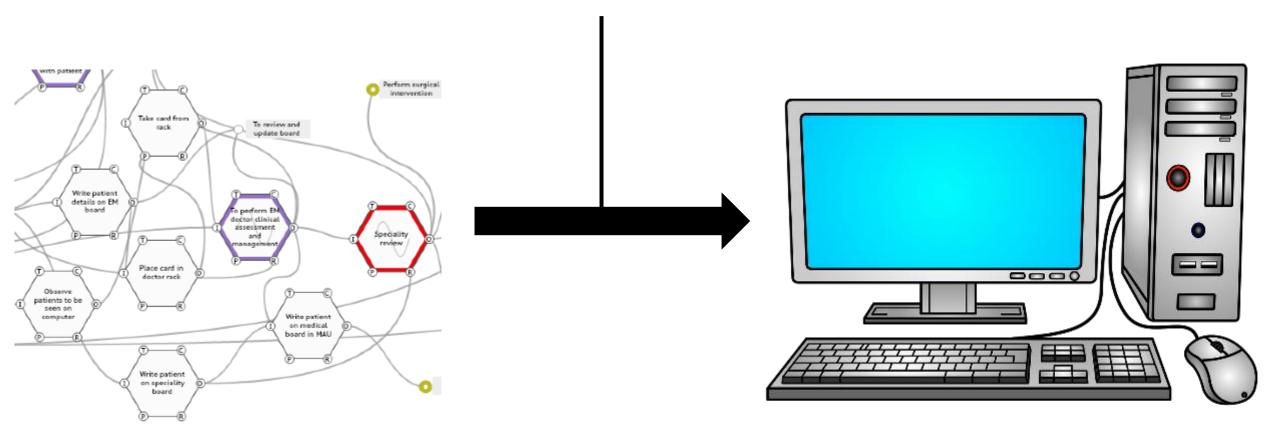
- Inventory
- Capacity
- Time

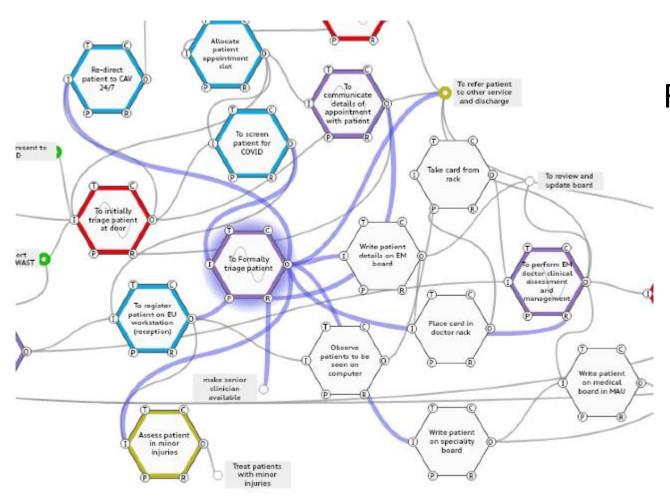
Overburden on the equipment, facilities, and people. Overburdening people leads to **safety and quality problems**.





Creation of tailored technical system using WAD to guide design.





RAT? Rapid Assessment and treatment

- Early senior clinical decision making
- Reducing inefficiencies currently present
- Reduce demand on system by achieving end goals quicker and while using less resources

