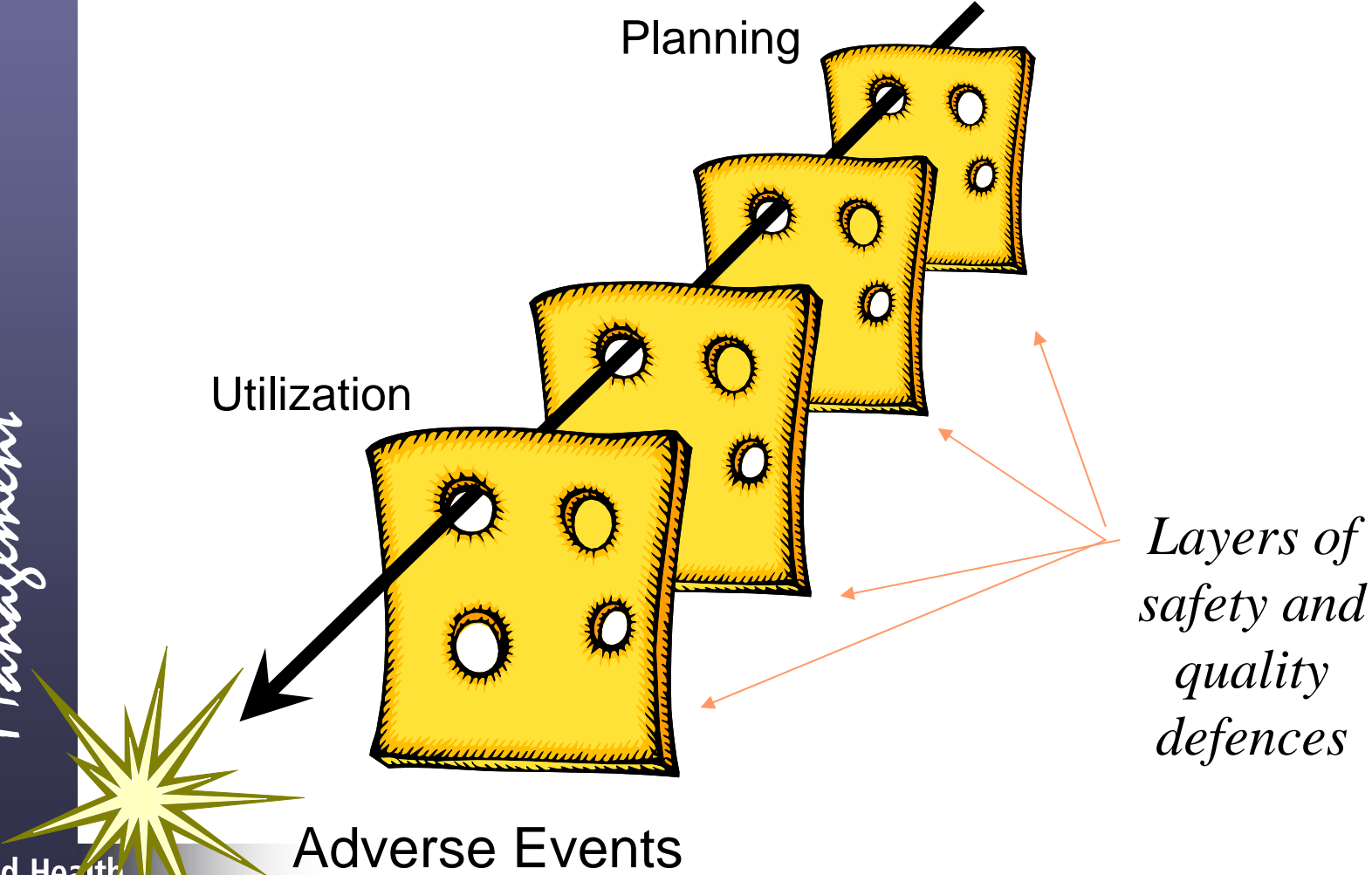


Healthcare Technology Management and its Role in providing Quality and Safe Care

Management and Patient Safety

Healthcare Technology Planning and Management



Appropriate Planning

- Resource planning under-pinned by sound needs identification and healthcare technology assessment.
- Intervention based resource planning identifying not only equipment needs but linking these to HR, facilities and pharmaceutical requirements.



Country Example

Expensive radiological equipment procured, not used due to the lack of expertise, spare parts and the ability to perform therapeutic services at the facility.

At the same facility no “sharp containers” due to the lack of funds.

Procurement & Training

- Procurement and supply of equipment need to be linked to their technical and clinical support capacity.
- User capacity and training needs to be linked to the planning and procurement process.



Country Example

Patient kept warm using hot water bottles; incubator not used as clinical staff is unable to operate incubator.

Instruction manuals in foreign language; no user training

Facilities Planning



- Facilities Planning must be based on realistic and affordable assumptions.
- Inappropriate “modernization” of specific facility elements (i.e. theatre) produce limited returns.
- Often places additional burden on facilities and their sustainability and impact of care.

Other Issues

- Patient safety within ICU is compromised – layout and flow.
- Dangerous practice in theatres i.e. anaesthetic gasses
- Patient flow and formalized operations inefficient



Used anaesthetic gases pumped into main theatre corridor

Healthcare Delivery Scenario

Strategic Level

Human Resource



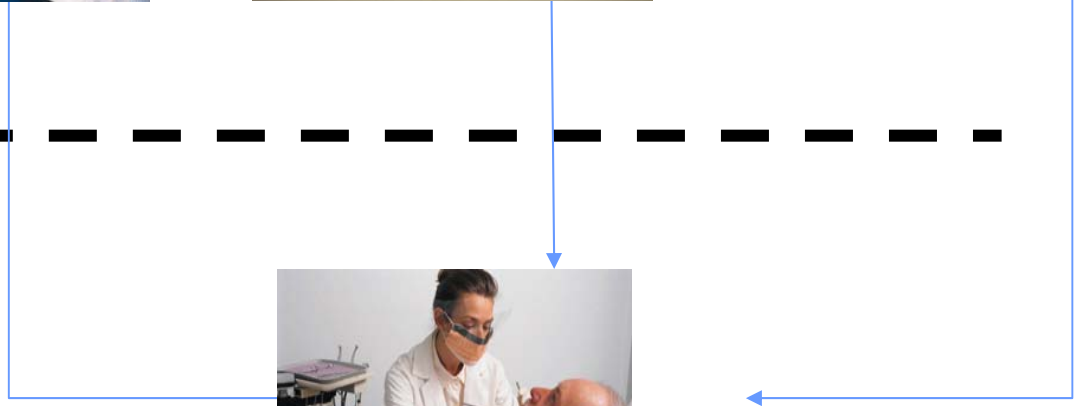
Pharmaceuticals



Medical Equipment



Operational Level



Design of Medical Equipment

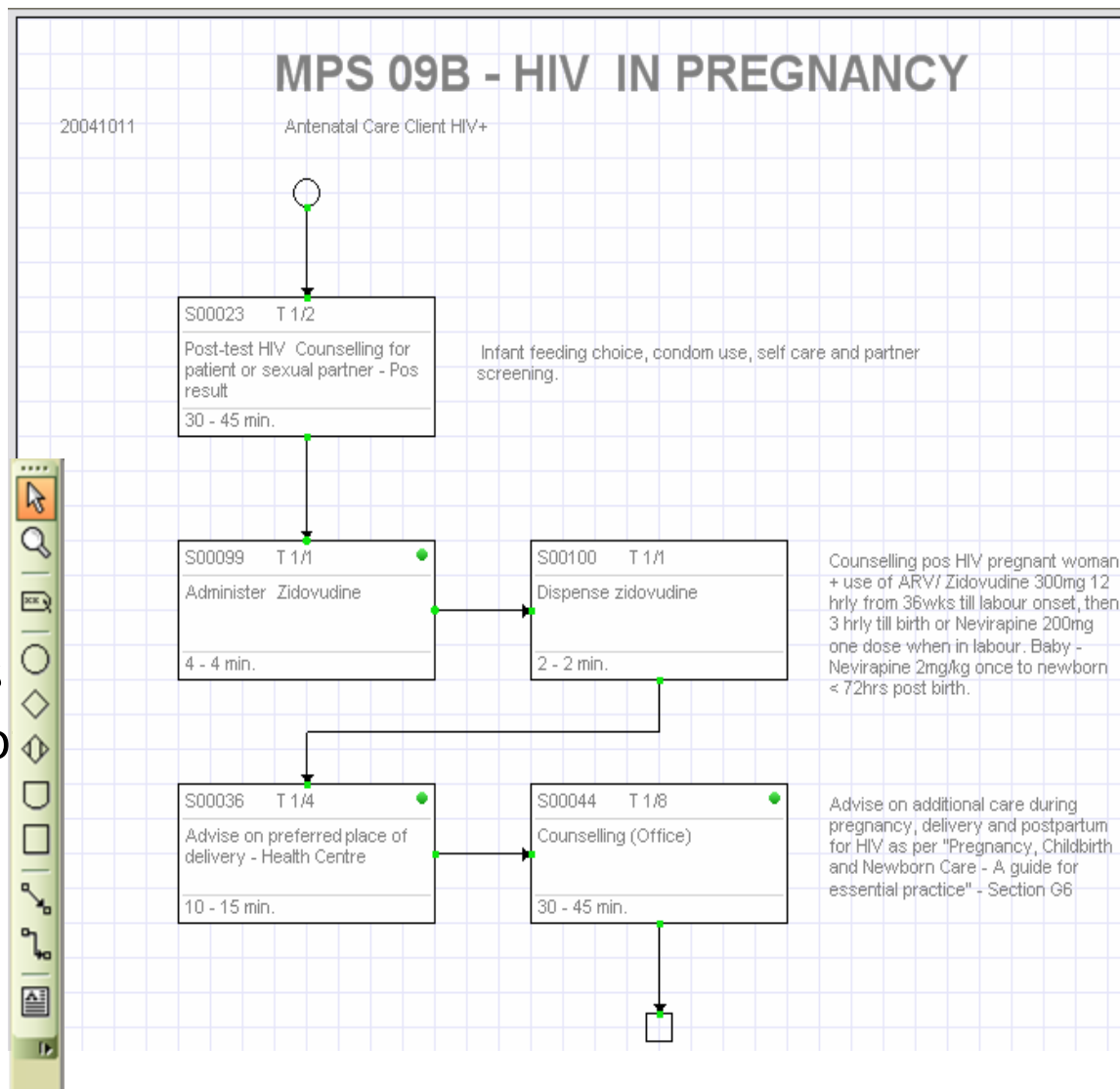
Healthcare Technology Planning and Management



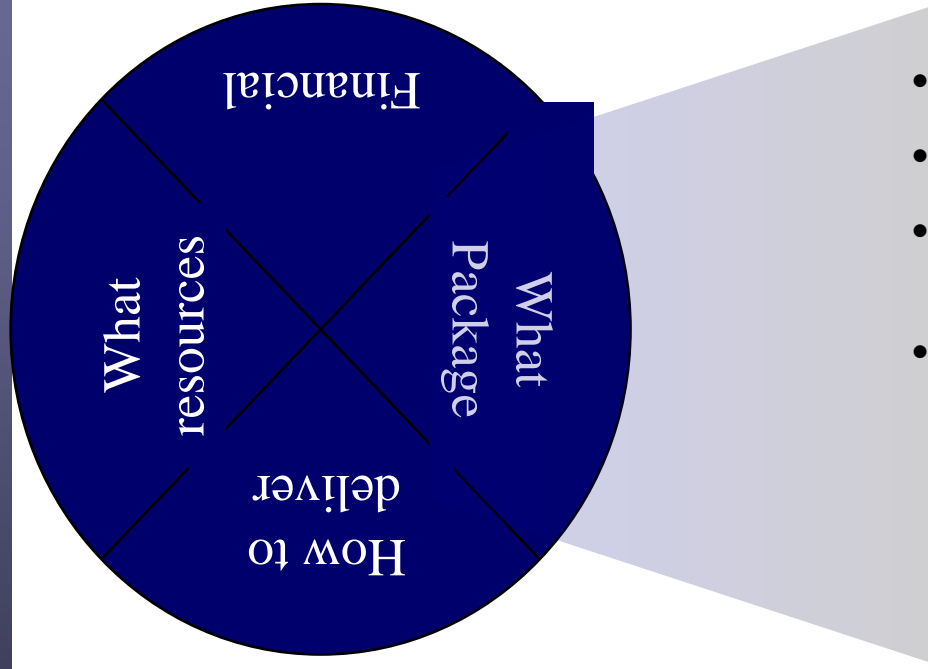
Ref: van Veelen, MA

Clinical Guidelines

- Full editor to map guidelines
- Over 4500 linked clinical procedures
- Modelling of idea and real guidelines

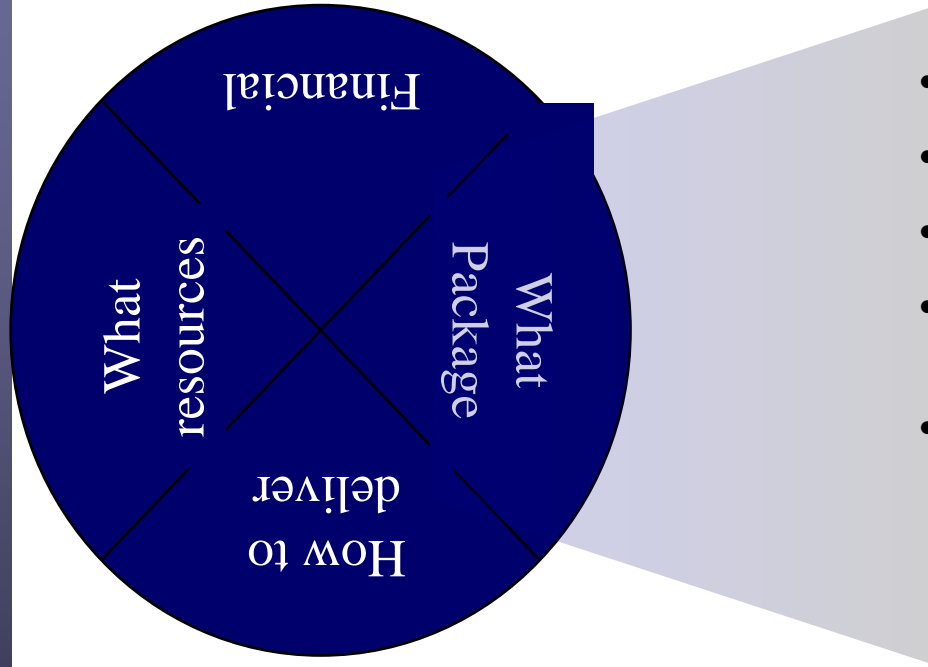


Resource Planning FHIRM - EHTP



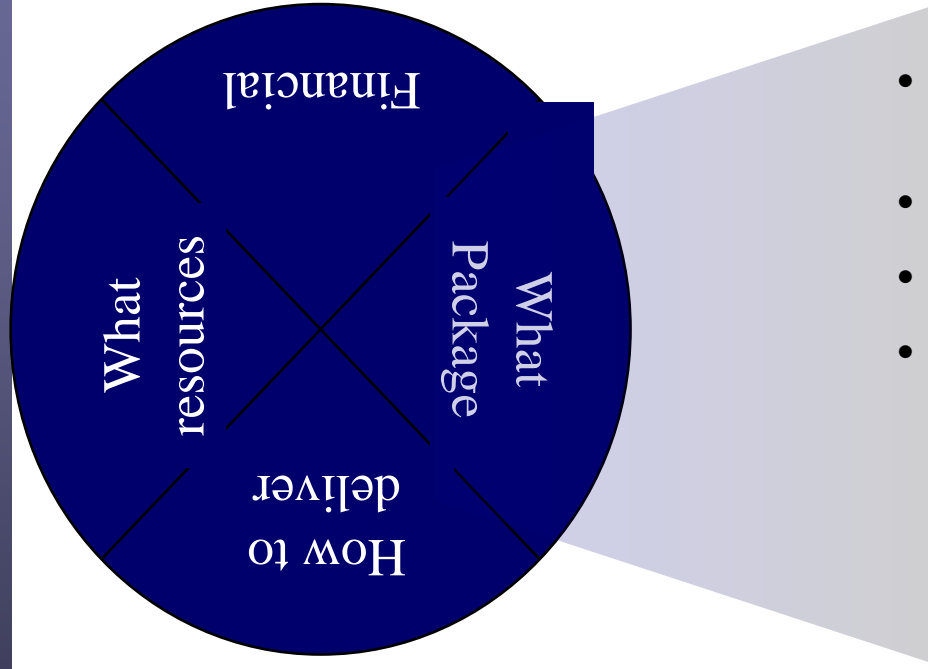
- Health Priorities
- Disease Profiles
- What package of services required
- Combination of services

Resource Planning FHIRM - EHTP



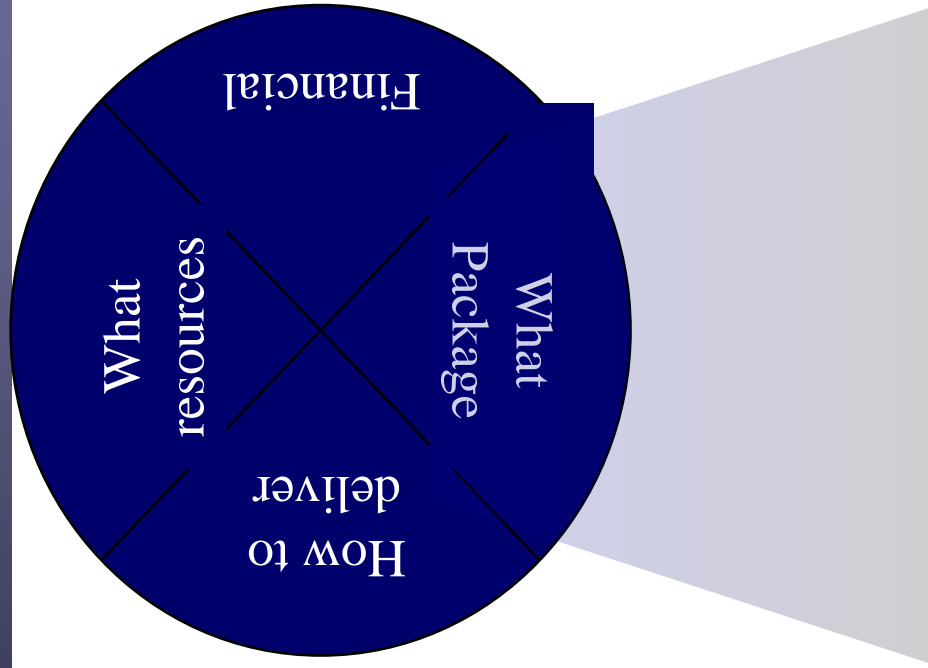
- Fixed investments
- Recurrent investments
- Sustainability
- Healthcare Technology Constraints
- Flexibility of service

Resource Planning FHIRM - EHTP



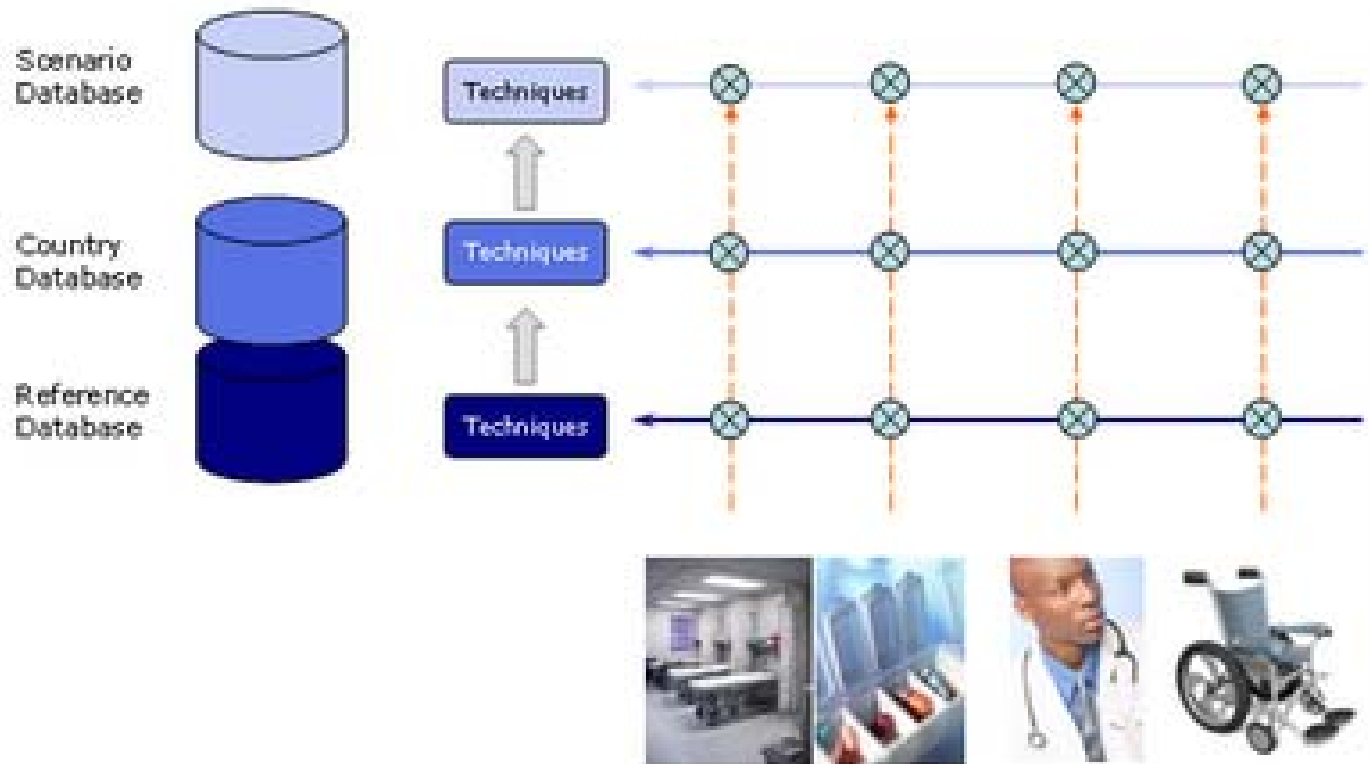
- Clinical Practice Guidelines
- Quality of Care
- Norms and Standards
- Evidence based

Resource Planning FHIRM - EHTP



- Healthcare Technology Resources (human resources, equipment, facilities, drugs)
- What combinations and ratios
- Quantities
- Technology complexity

Framework



Global EHTP Activity

