UNIVERSITY | TECHMED OF TWENTE. | CENTRE

THE SHAPING A TECHMED HEALTHY EVENT FUTURE

14:45 – 16:00 | Personalised eHealth for sustainable healthcare | dr Boony Thio & dr Rob van Doremalen

DISCLOSURE SLIDE No financial interests

Challenges for adoption RPM

Research evidence difficult:

Appropriate trial designs scarce
Variation in health care systems: no "copy-paste"
Low focus on RPM research
Incorporation of evidence in guidelines is slow





Research evidence difficult:

Hub Support:

Aternative trial designs (cohort multiple RCT)
Better Guidelines excecution
Education on Methodology of RPM





Challenges RPM:

Health illiteracy

Digital inclusiveness:

1/3 dutch population health illiterate in conjunction with medical overconsumption

Example: Covid 19



Health illiteracy

Empowering patients to acquire health literacy

Hub Support:
Increasing insights in disease
Personalised medicin
Coaching and guidance during symptor
Self management





Challenges RPM

Health care system reimbursement

No realististic investment budget for transformation

Reimbursement system is organised in SILO's and mainly for hospital care

Ambition is to reimburse 40% health care costs at home



Hub support:

Engaging Policy makers early on Combined data Quality and costs of care Embedding in networks



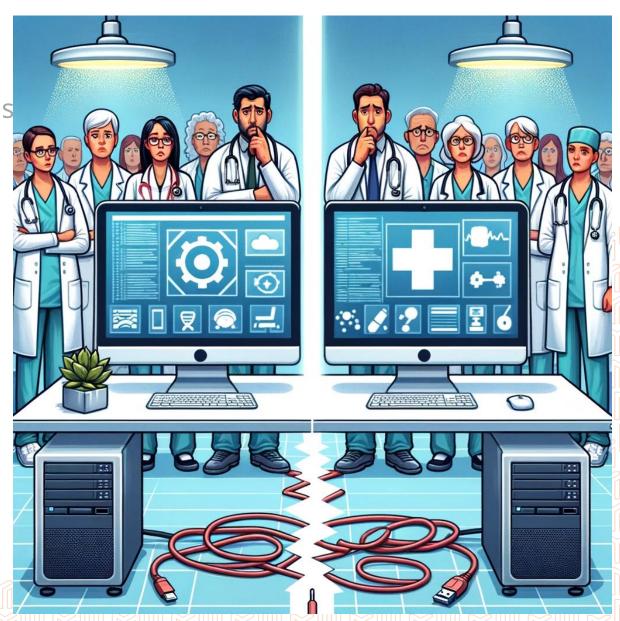
Lack of Digital Interoperability and technology

development

Slow introduction of technology in hospitals

Privacy issues of personal data

Dependency of companies and hospitals





Digital Interoperability

Hub support:

Engage ICT and connect with soft ware companies Health Care Professionals take the lead Connect HCP with experts in MDR



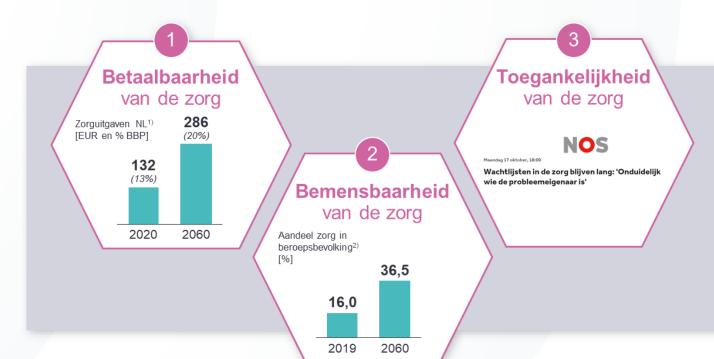
Innovation hub Medisch Spectrum Twente



Our goal:

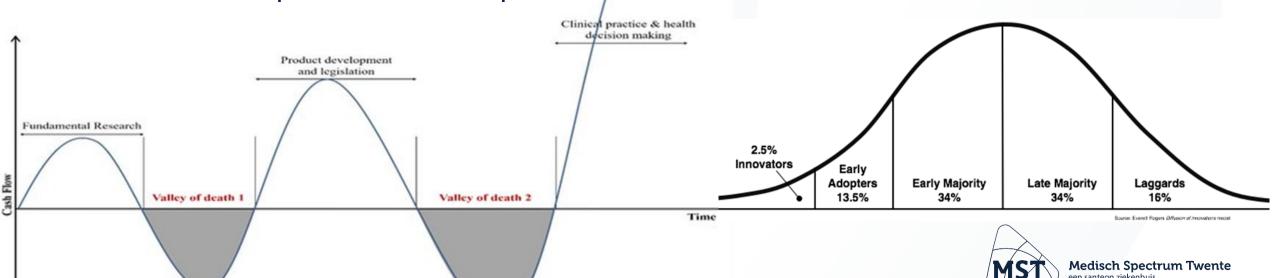
Find solutions for:

- 1. Increasing cost of healthcare
- 2. Increasing workload with less health professionals
- 3. Healthcare availability



Why innovation hub?

- 95% of innovations never reach clinical practice
- Potential cause: Valley of death
 - 1. After fundamental research
 - 2. After product development



Our role:

A funnel and filter for 'lost' initiatives

Network function within MST and other hubs





Internal role:

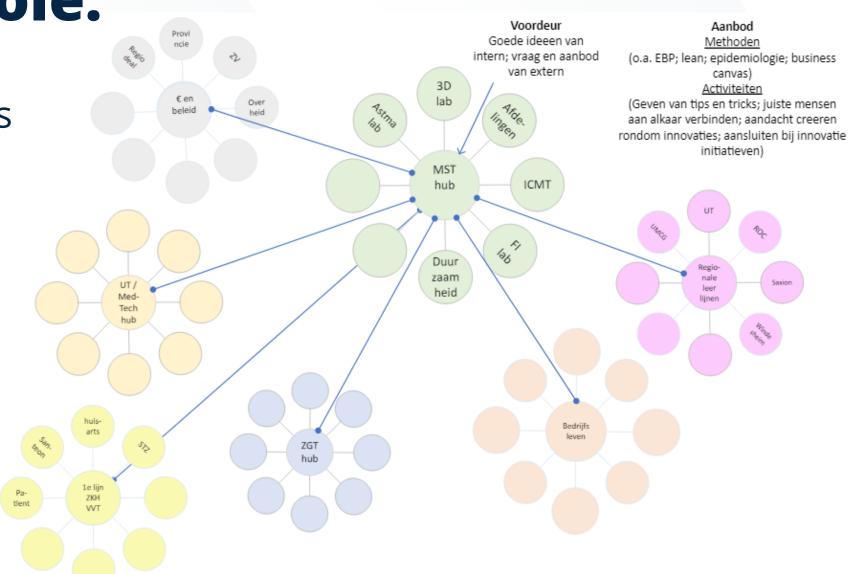
- Guiding initiatives of colleagues
 - 1. Filtering:
 - Which relevant problem does it solve?
 - What is the (collateral) impact of the initiative?
 - 2. Referral:
 - TRL>8: internal routes
 - TRL<8: external partners (scientific or business)

TDL	Research Idea Shows promising potential application	CONCEPT
TRL 1	Shows promising potential application	PHASE
TRL 2	Applied Research Idea Hypothesis testing and initial proof of concept is demonstrated in a limited number of in vitro / in vivo trials	
TRL 3	Project plan Device Characteristics Document & Project proposal completed Ready for Phase I – Proof of Concept (PoC) Phase	
	Double	
TRL4	Development PoC and safety of the device is demonstrated in in vitro / ex-vivo / in vivo	PROOF OF
TILLY	conditions	CONCEPT PHASE
TRL5	Standardisation Documentation on design transfer, material evaluation matrix and device evaluation matrix completed Ready for Phase II – Preclinical Evaluation (PCE) Phase	
	Preclinical evaluation	PRECLINICAL
TRL 6	Preclinical evaluation completed Documentation on Device Master File, Technical Advisory Committee / Ethics Committee , Clinician's Brochure and Clinical Trials Protocol Completed	EVALUATION PHASE
	• Ready for Transfer of Technology (ToT) Phase	TECHNOLOGY
TRL7	Technology Transfer Training of industry / Technology transfer completed Technology transfer documentation completed	TRANSFER PHASE
	Ready for Multicentre Clinical Evaluation (MCE) Phase	CLINICAL
TRL 8	Clinical evaluation Clinical Evaluation Completed Documentation on Device History File completed	EVALUATION PHASE
		COMMERCIALIZATION
TRL 9	Commercialization Commercialization & Post market surveillance	PHASE

External role:

Connecting hubs

- Pilots
- Consulting



MST innovation hub

Still under construction

- Physical room
- Setting boundaries



What do you need?

Wooclap

https://app.wooclap.com/INNOVATIONHUB

- Distinction between researchers and business
- From your perspective, in you situation, how could innovation hub be of help?
 How could you benefit from an innovationhub in MST?





