

Himss® *Türkiye*

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ANTALYA, TÜRKİYE

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**PREVENTATIVE SELF-
CARE; A real time,
vital Life signs,
Phenotype Patient
owned PHR Approach**

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EPPOSI multi stakeholder organization
EuDiPPA Digital Peer Patients Alliance



Types of prevention in health

- Primary prevention
 - *Prevent onset of disease or injury*
- Secondary prevention
 - *Halt or slow disease progression; limit disability or stop recurrence of injury*
- Tertiary prevention
 - *Prevent further deterioration, maximize quality of life*



Only by capturing good data can we set the foundation for personalized preventive health and wellbeing

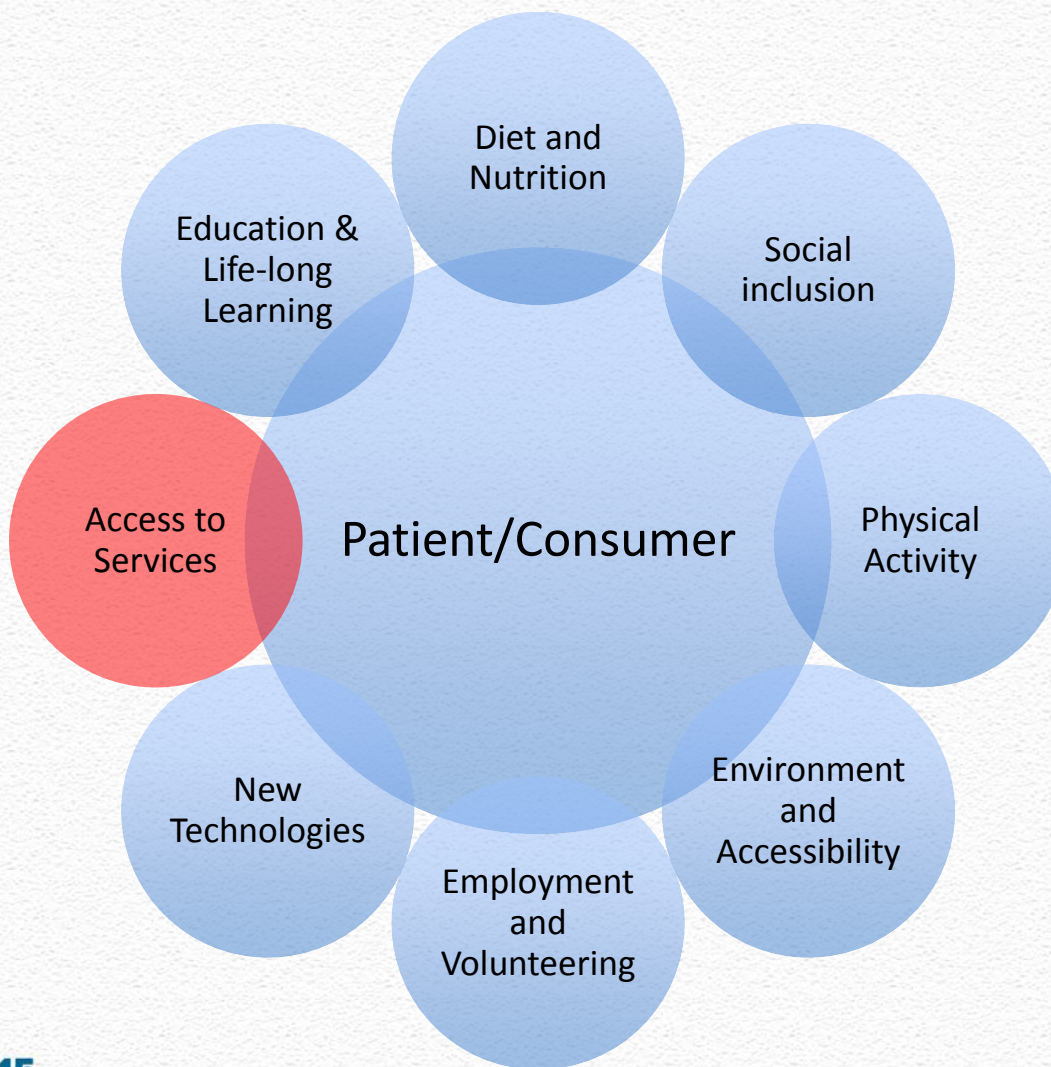
Why phenotype data driven technology?



- Thesis
 - Patient/Consumer's health is a multi-variate production function
 - WHO report on Social determinants of health
- Patient/Consumer manages and maintains his/her health by:
 - Identifying signs of good/ill health
 - monitoring what is measurable among them
 - Using measurements to drive behavior modification

Inspired by Active and Healthy Ageing (AHA)

Self care



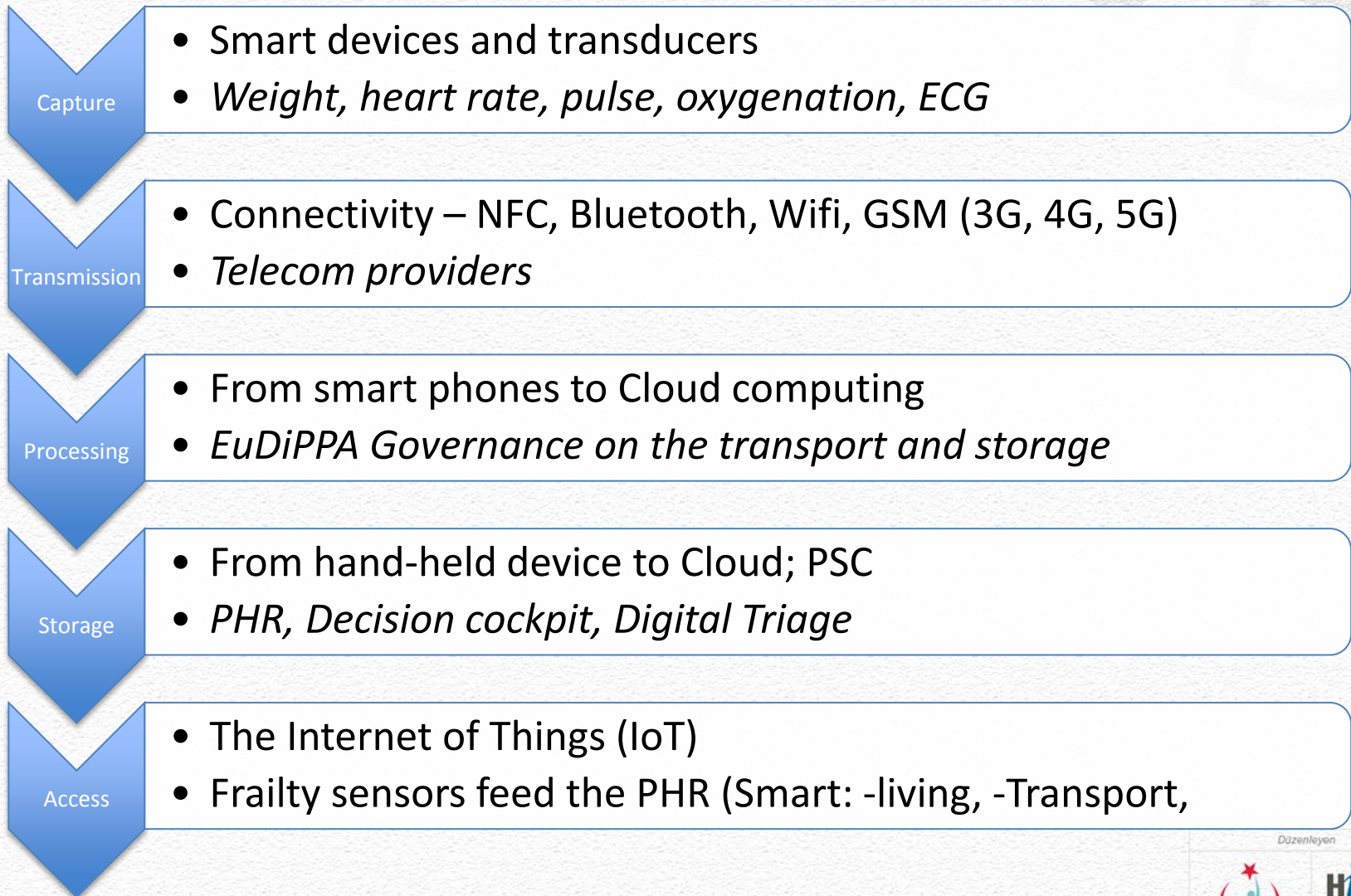
Theoretical foundation; HTA

Identify signs
of good/ill
health

Monitor what
is measureable

Capture and
use the data
for behaviour
modification

Digital Technologies for various data operations



Identifying relevant technologies



Matrix of Frailty level and state of health literacy & eSavvyness of the patient/consumer.



for each matrix element:

Identify requirements associated with data elements

Environmental scan of available technologies and systems

Identify best practices

Best practice example: Burden of disease

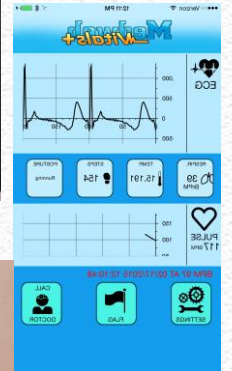
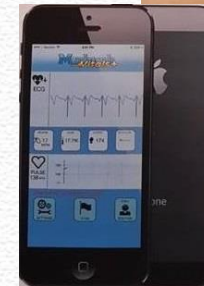
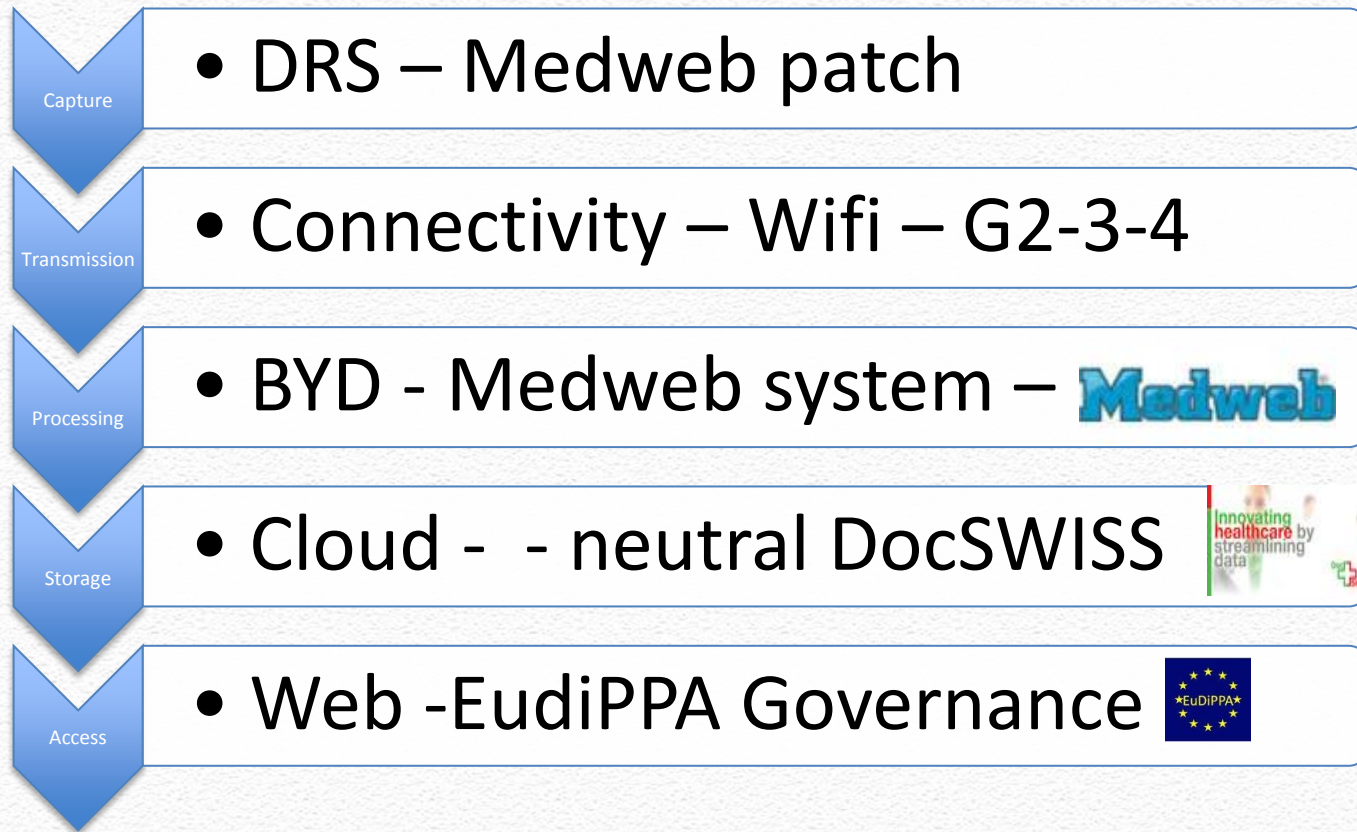
Cause	Attributable Deaths	Attributable YLL	Attributable YLD	Attributable DALYS	Attributable DALYS rate in total DALY
Ischemic heart diseases	29.581	317.790	28.504	346.294	3.2
Hypertensive heart diseases	7.174	57.723	4.073	61.796	0.6
Ischemic Stroke	11.109	93.794	53.136	146.930	1.4
Diabetes Mellitus	7.674	73.921	78.319	152.240	1.4
Osteoarthritis	0	0	61.035	61.035	0.6
Breast cancer	724	7.141	1.718	8.859	0.1
Colon and rectum cancers	646	6.583	717	7.300	0.1
Corpus uteri cancer	235	2.079	651	2.730	0.0
Total	57.143	559.032	228.151	787.183	7.3

"Turkey Burden of Disease Study"
Benefit: prevention & DALY

Table 1: Distribution of high BMI attributed disease burden and death numbers.

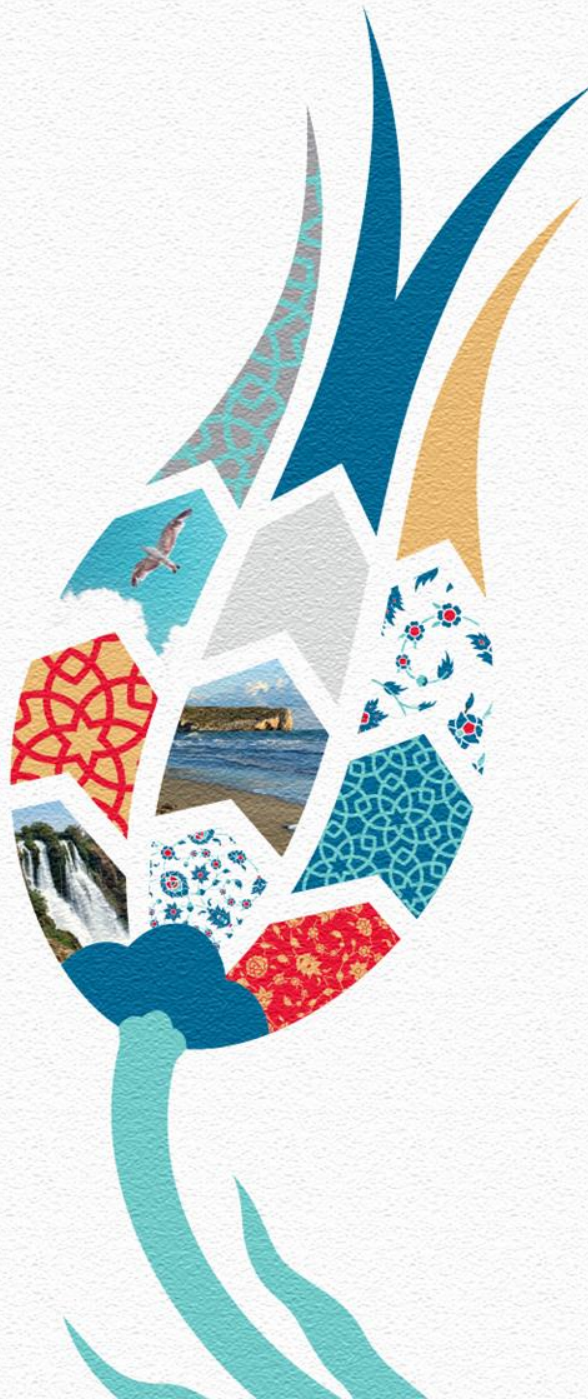
- Type of prevention – Secondary and tertiary
- Frailty levels 3 – 6
 - From Healthy with managed co-morbidity to severely frail
- Digital health literacy levels 1 – 6
 - Data capture done by trained allied health worker
 - Interpretation by qualified Health Professional

Example: Technologies for frailty monitoring



- **Wearable**
 - sensing:
 - Temperature
 - Heart rate
 - Respiration
 - ECG
 - Posture
- **Group Data**
 - analytics available

Information courtesy of
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THANK YOU
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