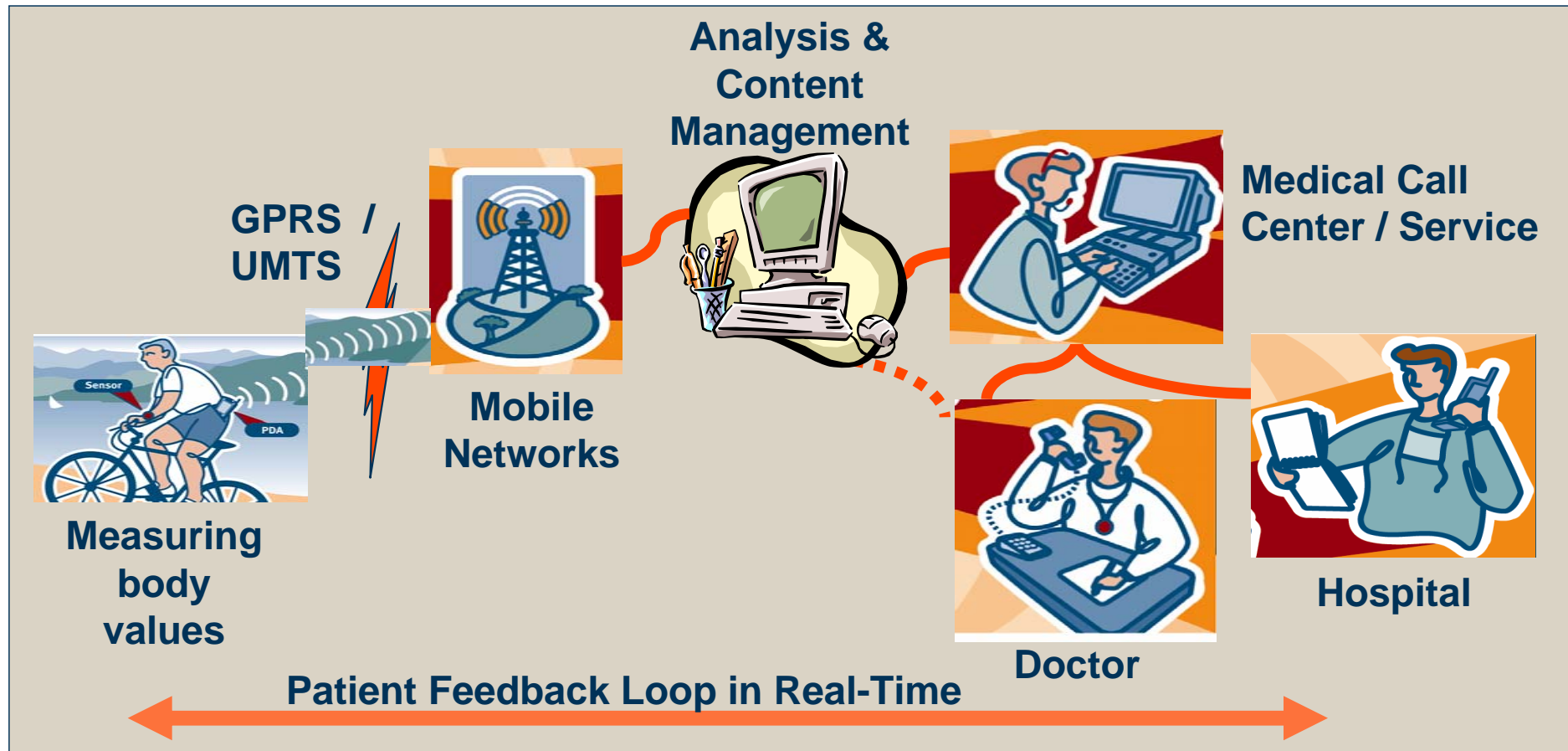


Mobile Patient Monitoring – Applications & Value Propositions for Personal Health

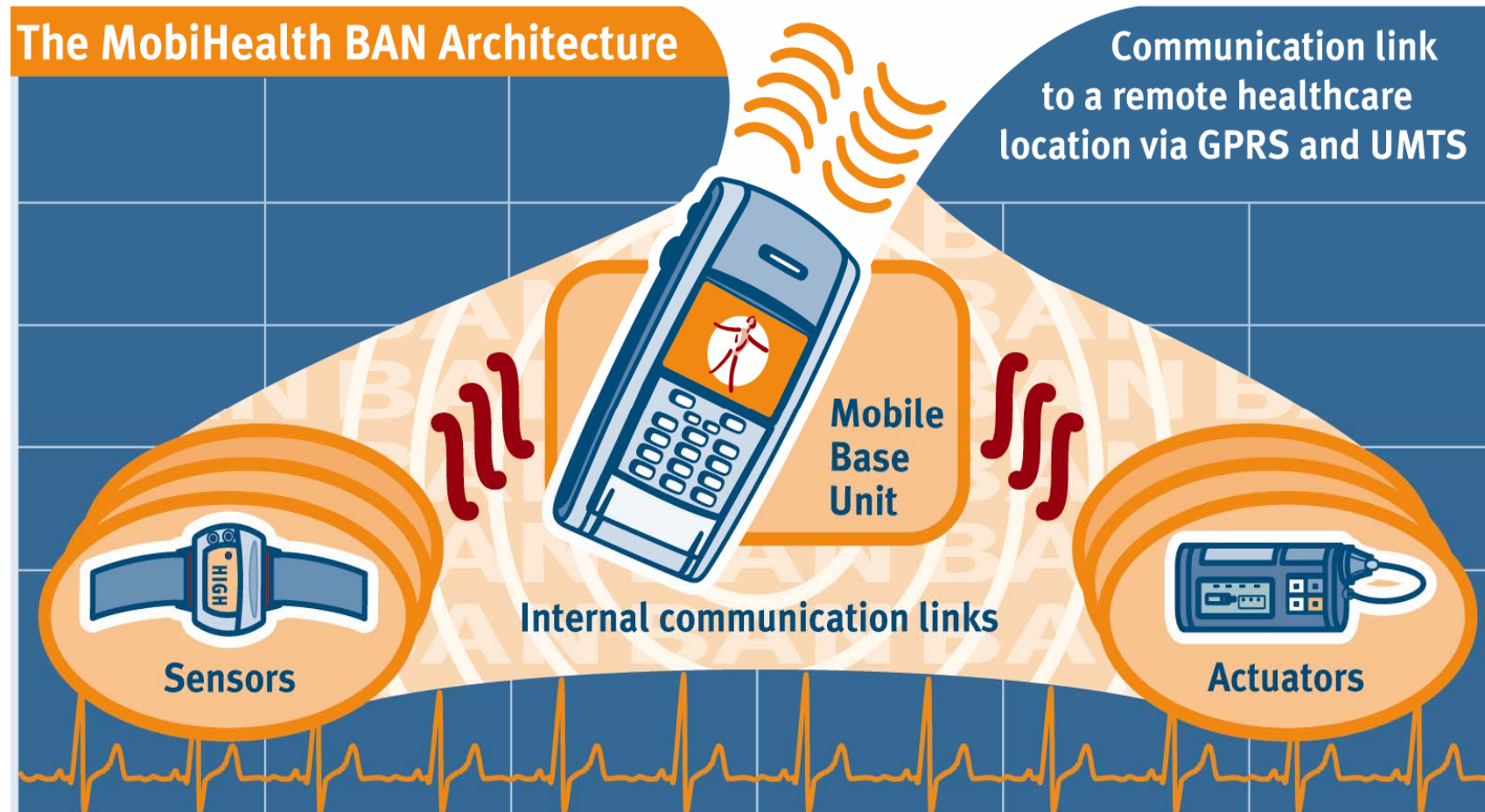
phealth, Luzern, January 31, 2006

The Mobile Healthcare Solution

- Core for a variety of new doctor – patient dialogues: mobile monitoring, patient messenger, patient diary



Body Area Network (BAN)



Support from 2 EU projects

MobiHealth

IST-2001-36006



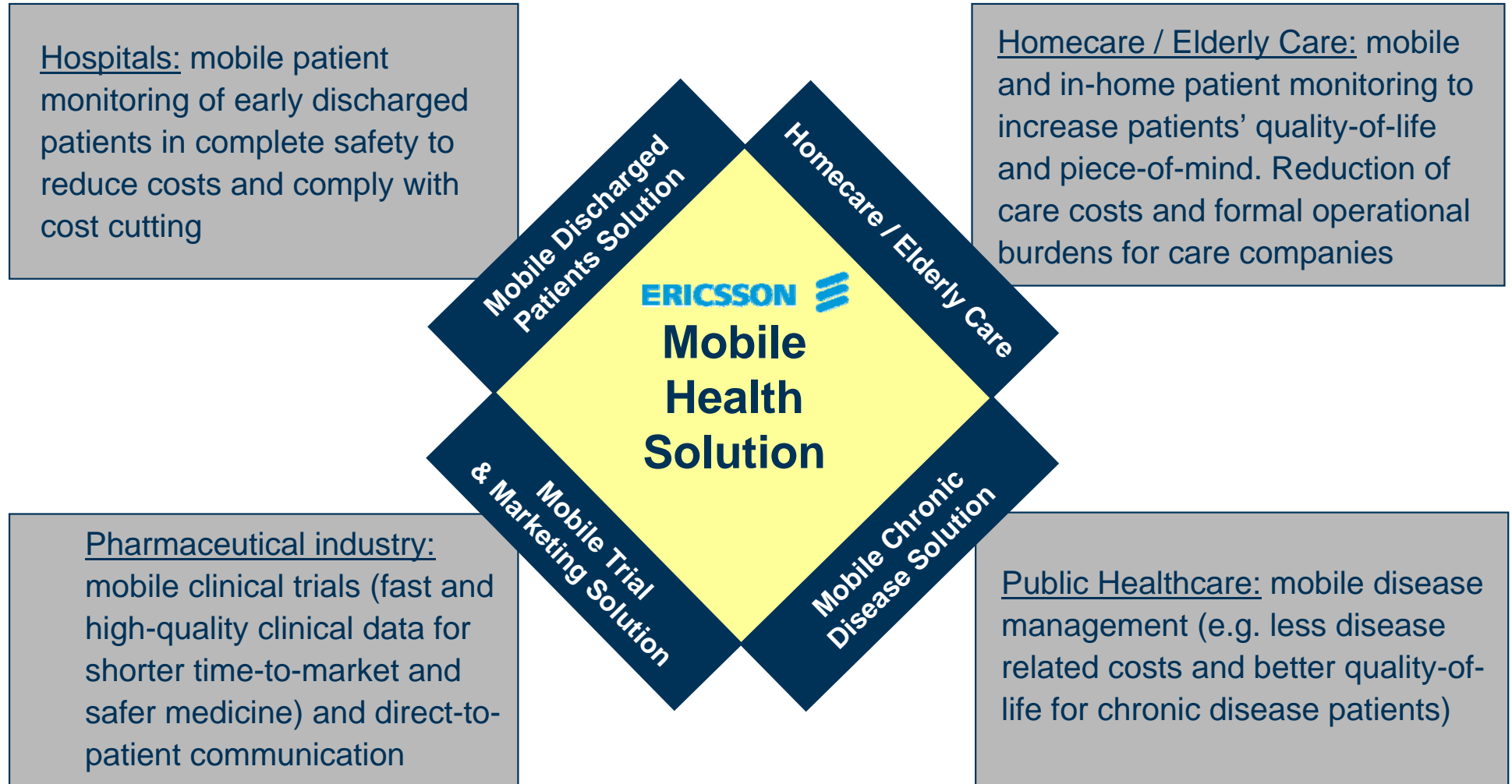
HealthService24

Continuous Mobile Services for Healthcare

eTEN-C517352



m-health target groups



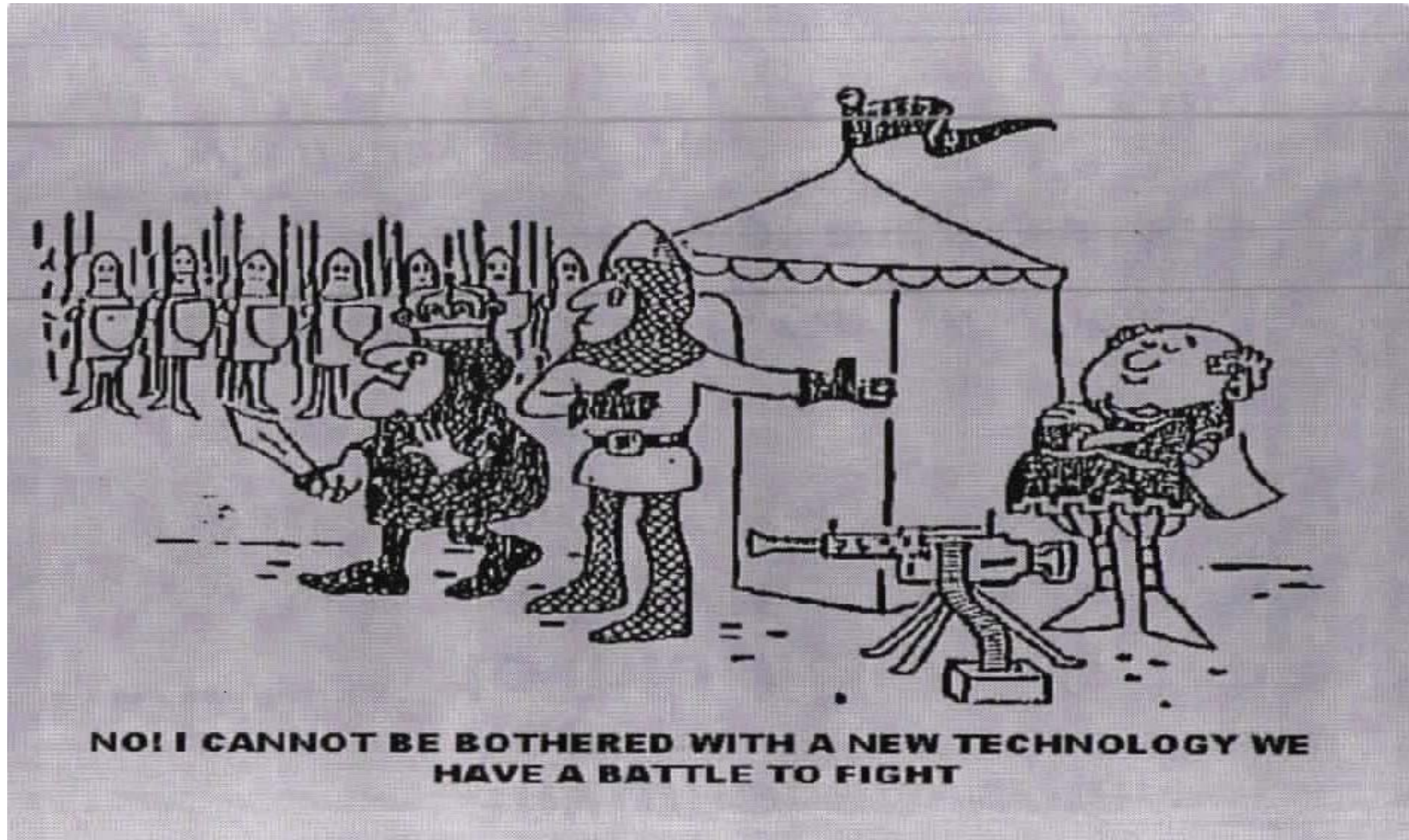
Mobile healthcare: high potentials

Personal healthcare, prevention, fitness and wellness is one of the most dynamically expanding markets concerning consumption of media and information systems – including mobile solutions ¹⁾

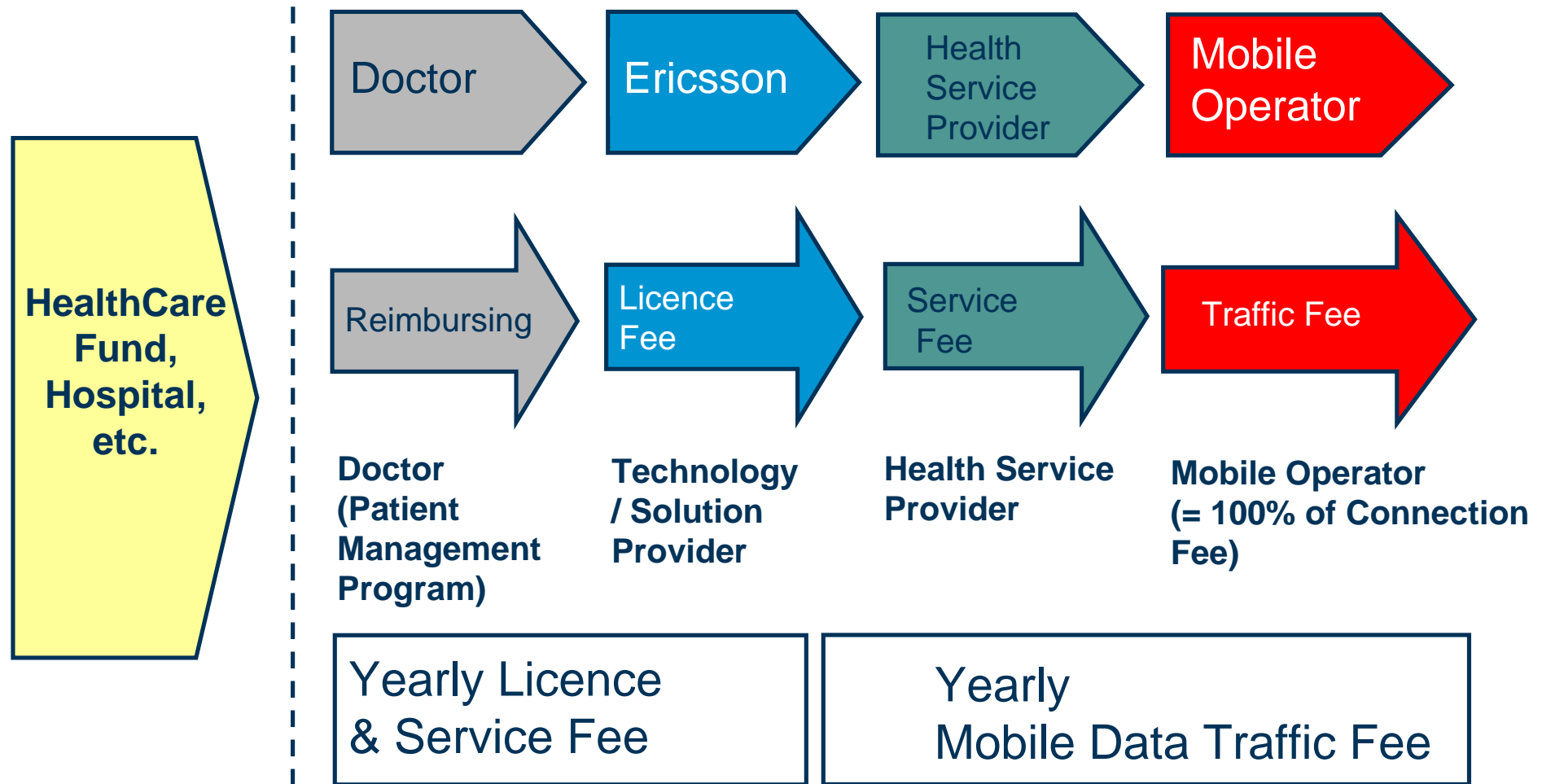
Mobile Healthcare will be one of the most rapidly growing segments in the area of mobile enterprise solutions ²⁾

- 1) Durlacher
- 2) Gartner Group

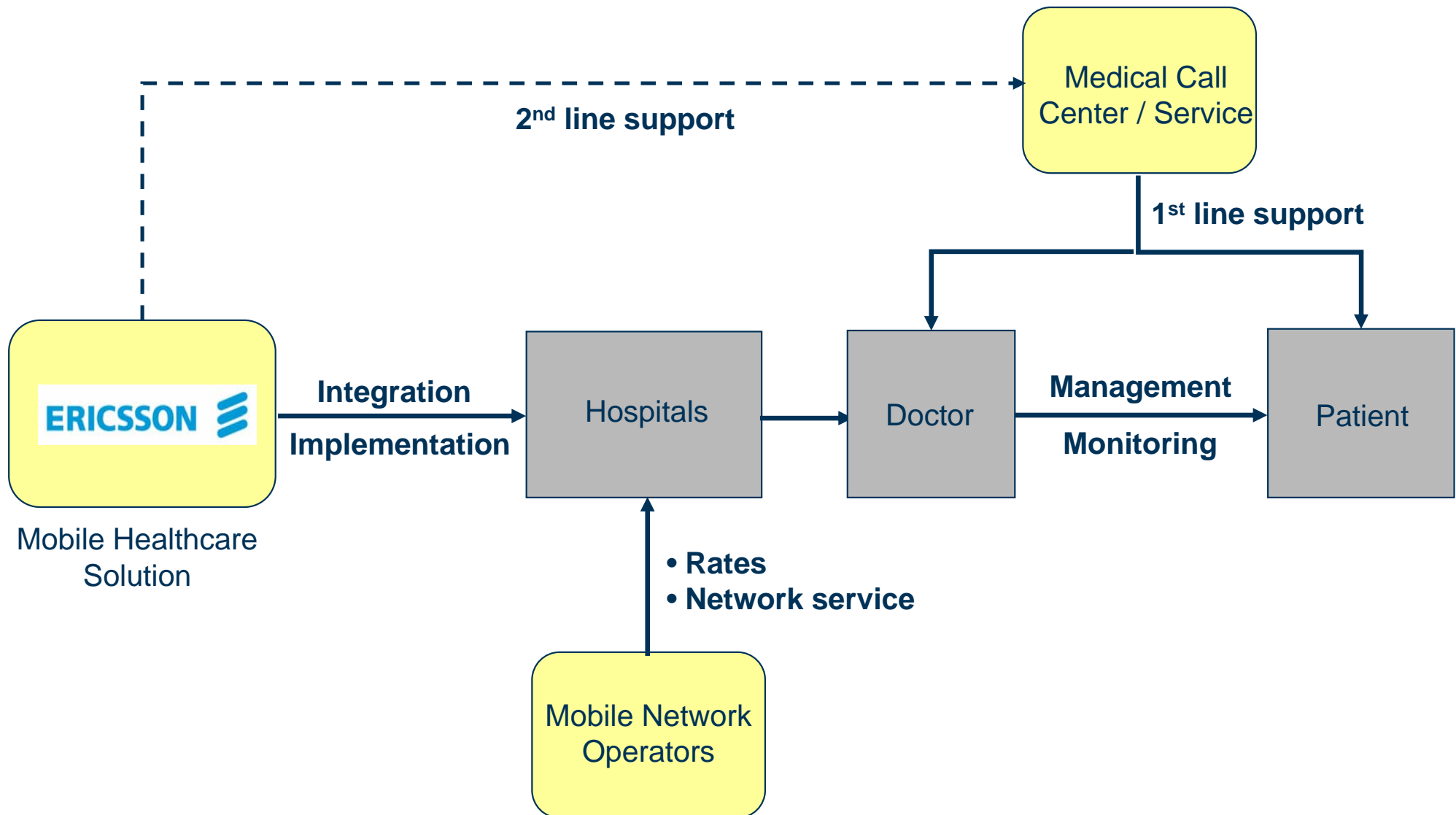
Value proposition: technology is not enough!



Lucrative business models for the whole value chain



Possible product and service supply chain for m-health



Savings through disease management (I)

- **The Asthma case: potential yearly net savings/patient in Germany amount to €600 - €1800 (10-30%)**

Example :


Percentage of yearly treatment costs per patient for Asthma, (100 = €6,000)



Source: McKinsey

Savings through disease management (II)

- The Asthma case: potential yearly net savings of €24-72 mil for the German healthcare system (based on 1% acceptance)

Disease	Prevalence	Potential users	Acceptance*
Diabetes	5.000.000	500.000	10%
Stroke	1.500.000	400.000	27%
 Asthma	4.000.000	120.000	3%
Hypertension	17.600.000	528.000	3%
CAD	1.500.000	45.000	3%
Total potential users		888.000	1%

**Potential savings:
€24 – 72 mil**

* Estimated acceptance rates for mobile patient management programs

Cost savings in patient care

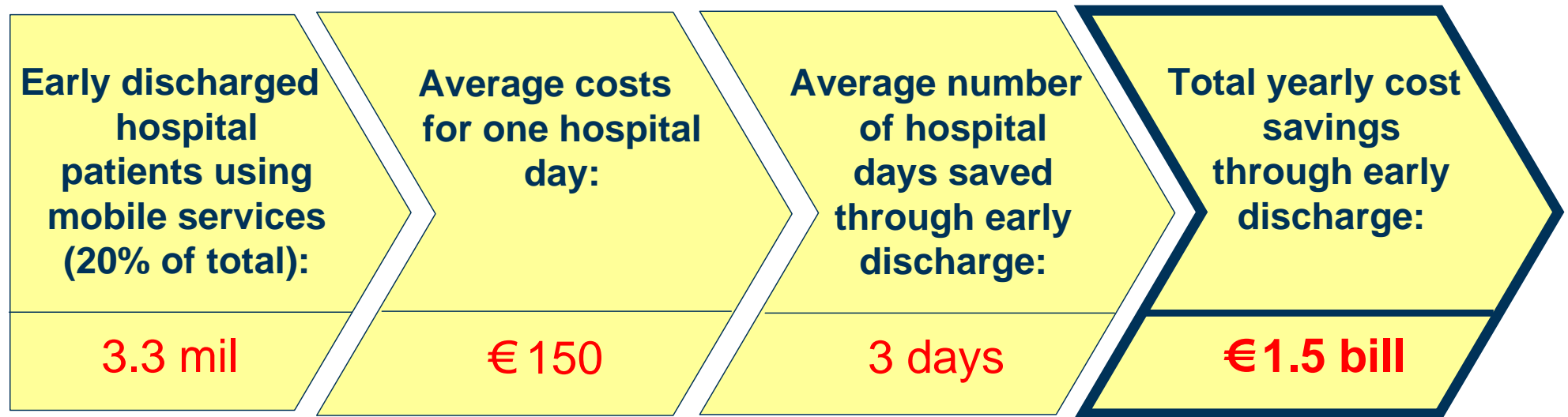
- **Discharging patients earlier from hospitals to their homes can result in savings of 85% in weekly care costs**



Source: Wireless Healthcare 2004

Mobile applications help hospitals to lower treatment and care costs

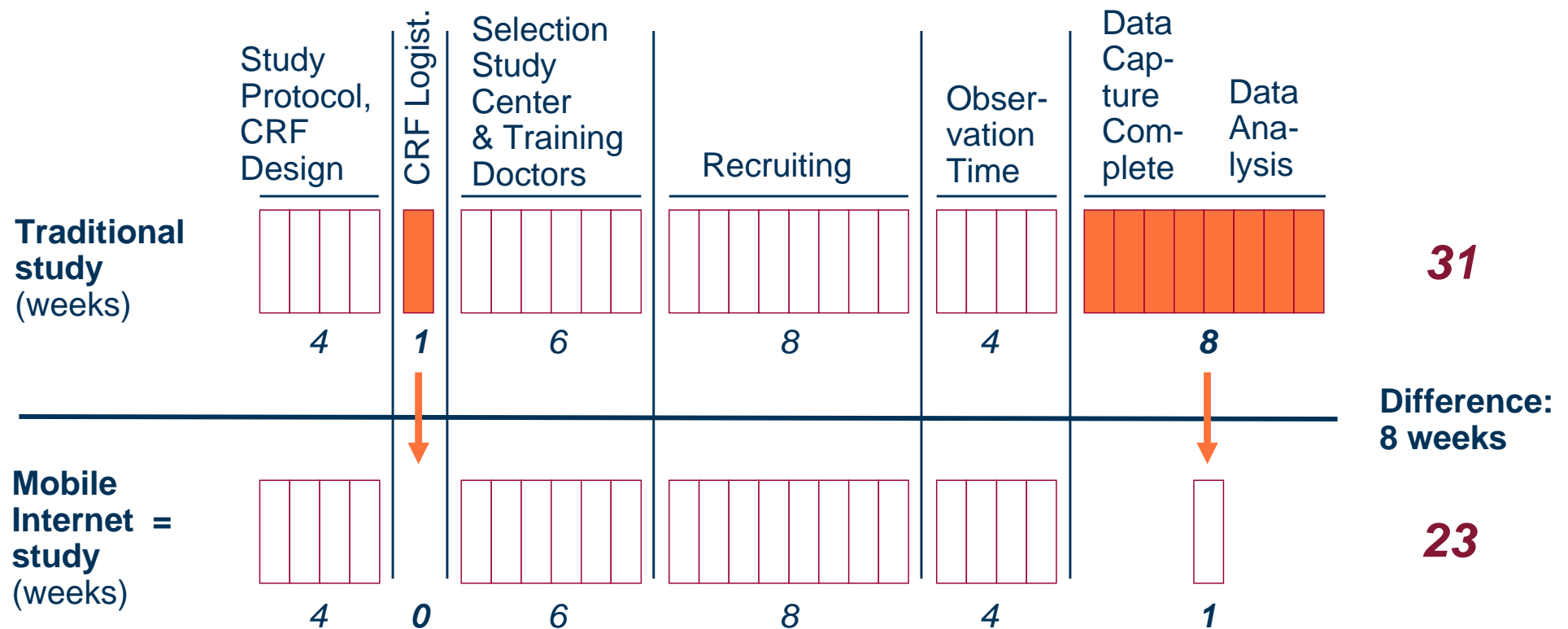
- Hospitals in Germany can save up to €1.5 bill per year through early discharge of patients made possible by mobile monitoring services



Source: GesundheitScout 24 GmbH and Bayerisches Rotes Kreuz

Mobile applications shorten clinical trial time in the pharma industry

- The pharma industry loses on average \$ 1 mil for each day a new pharmaceutical product is not yet on the market



Source: BMZ (CRO), Munich

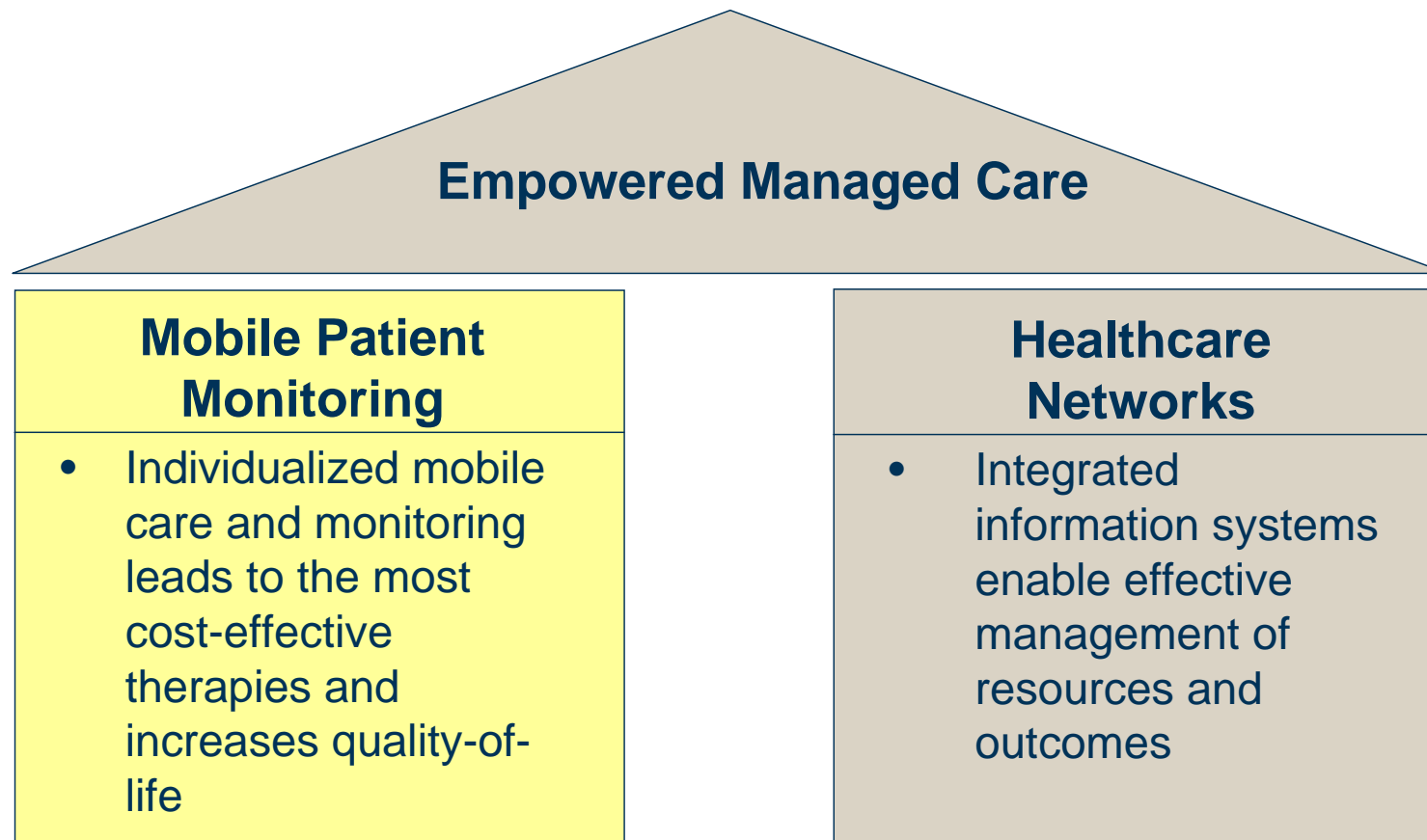
Mobile health services can generate significant data traffic revenues

→ Data volume **per patient** for a mobile cardiology trial application (4 channel ECG monitoring):

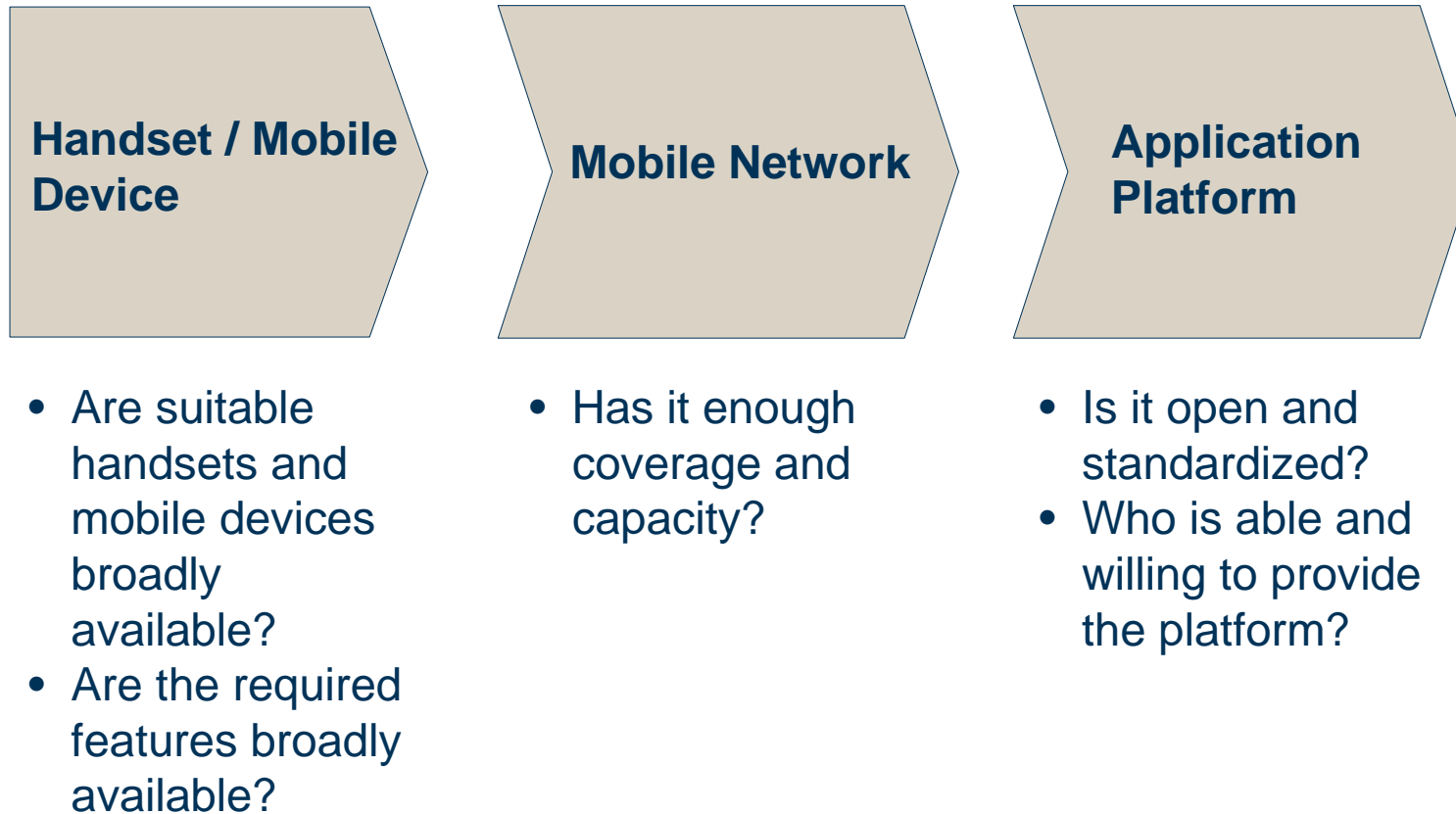
	24h/7d	3h/7d
Data rates / day (MB)	162	20.25
Data rates / month (MB)	4,941	617.6

Some mobile health applications need continuous connection to the mobile network whilst others do not. Both types will generate significant data traffic

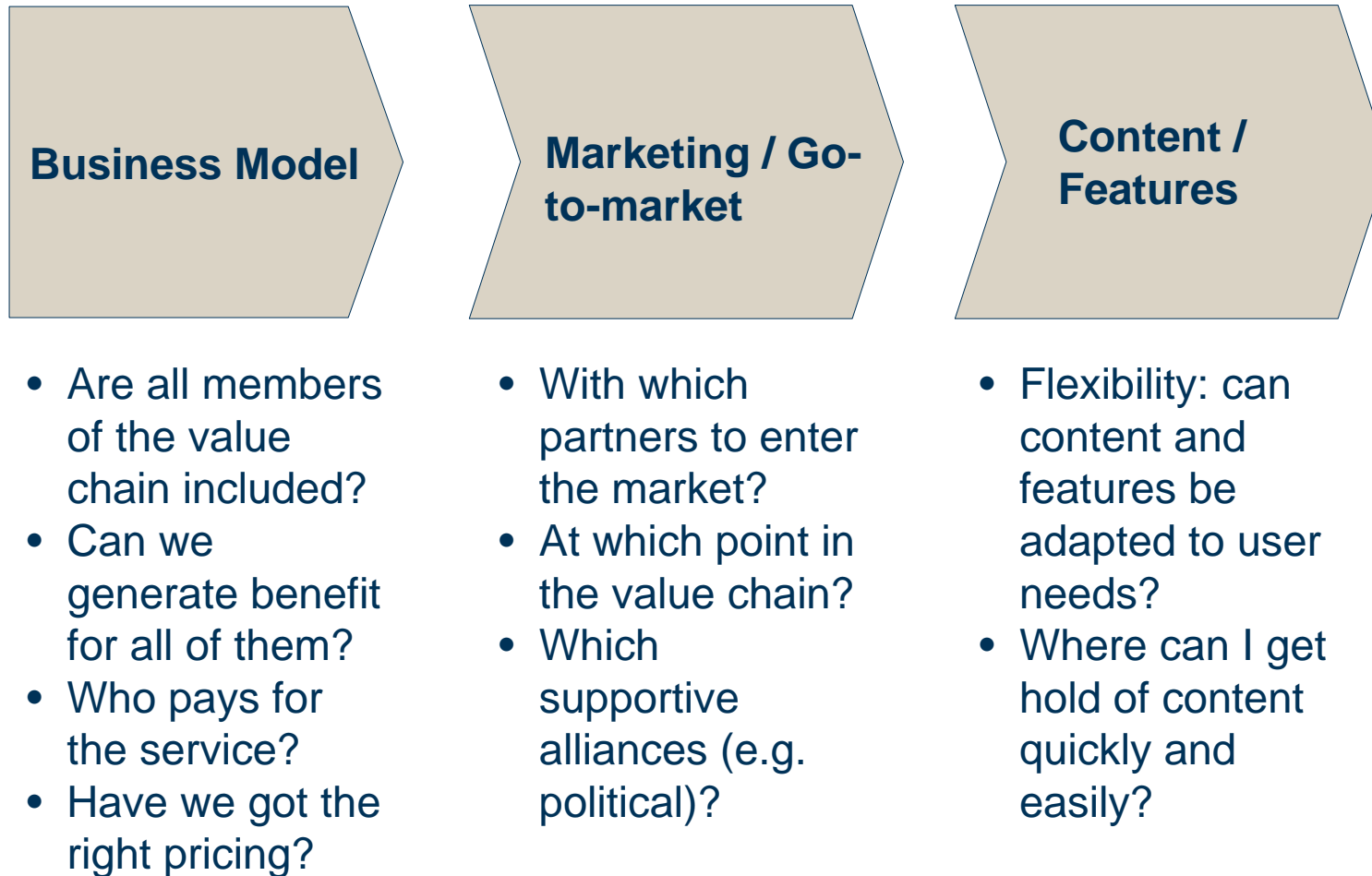
Empowered managed care – an integrated health solution approach



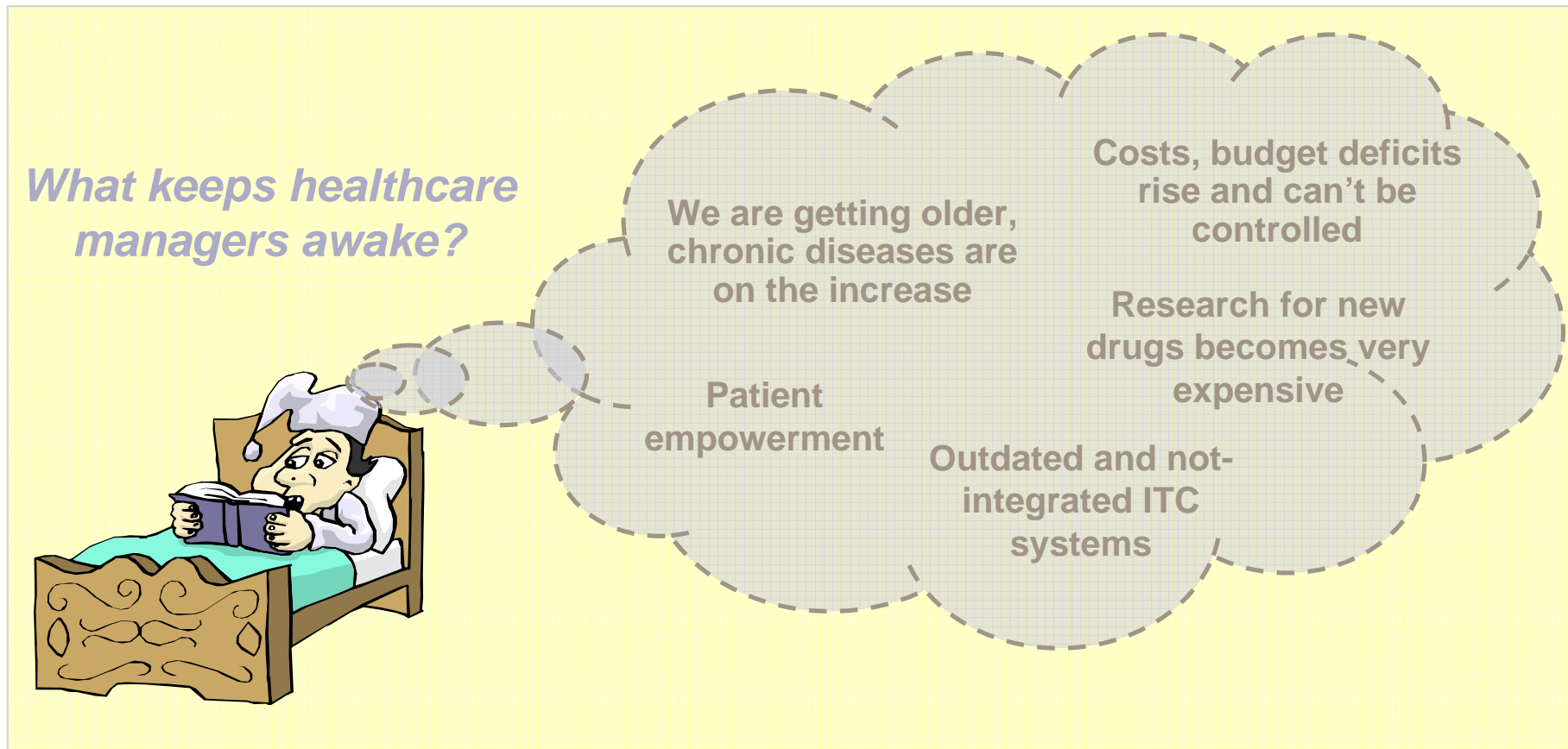
Telemedicine success factors (I)



Telemedicine success factors (II)



Challenges for healthcare



e- and m-health services are suitable to contribute to solving the challenges of the healthcare sector

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