

Questions for discussion:

Sensor networks: Opportunities and Challenges

What are the benefits? What are the drivers and obstacles? How risky is investment in this area?

- **Readiness**

- What are the needs of society and customers?
- How mature is the technology (in the lab, close to commercialisation)? Are there specific technical obstacles (e.g. power, scalability)?
- Are there infrastructure issues (Internet vs closed networks, IP based or not, bandwidth, addressing)?

- **Deployment**

- **Market:**

- Is there: demand (need+money), a market failure? Why (lack of customer resources, externalities, misalignment of incentives (those who pay do not benefit), policy incoherence)?
- What are the current business models? Are they sustainable (ROI)?

- **Security:** can confidentiality, integrity, availability and identity be ensured?

- **Legal framework:** can privacy be ensured? Are there liability issues?

- **Interoperability:** is interoperability critical? At which level (sensor devices, networks, other)? Is there a need for standards? In which area?

- **Acceptance:** are applications acceptable to and usable for users?

➔ What could speed up research and innovation?

➔ Should governments intervene, in which areas (e.g. health care), at which stage (development/deployment) and how (regulation, financing)?

Summary matrix (1/3)

↓ Questions	Sectors →	Health	Environment	Transports
What are the benefits?				
What are the drivers and obstacles?				
How risky is investment in this area?				
Readiness				
What are the needs of society and customers?				
How mature is the technology? (in the lab, close to commercialisation)				
Are there specific technical obstacles? (e.g. power, scalability) Are there infrastructure issues? (Internet vs closed networks, IP based or not, bandwidth, addressing)				

Summary matrix (2/3)

Sectors → ↓ Questions	Health	Environment	Transports
Deployment			
Market Is there: demand, a market failure? Why? What are the current business models? Are they sustainable?			
Security (can confidentiality, integrity, availability and identity be ensured?)			
Legal framework (can privacy be ensured? Are there liability issues?)			
Interoperability (is interoperability critical? At which level? Is there a need for standards? In which area?)			
Acceptance (are applications acceptable to and usable for users?)			

Summary matrix (3/3)

Sectors→ ↓ Questions	Health	Environment	Transports
What could speed up research and innovation?			
Should governments intervene? In which areas At which stage (development/ deployment) How ? (regulation, financing)			