

# Support Ambient Intelligence Solutions for Small to Medium size Enterprises: Typologies and Taxonomies for Developers

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# Outline

- Motivation & Problem
- Objective of research
- Definition
- AmI System Typology
- AmI Taxonomy
- Case Studies
- Conclusion & Future Research



- Realisation of new solutions potential in manufacturing
  - Manufacturing SME sector is the focus of this research.
- Changing trends in technology potential
  - Very few methodologies for systems development develop a system to surround the human actor.
- Key problems for developers
  - Current research in the area of Ambient Intelligence (AmI) is ambiguous.

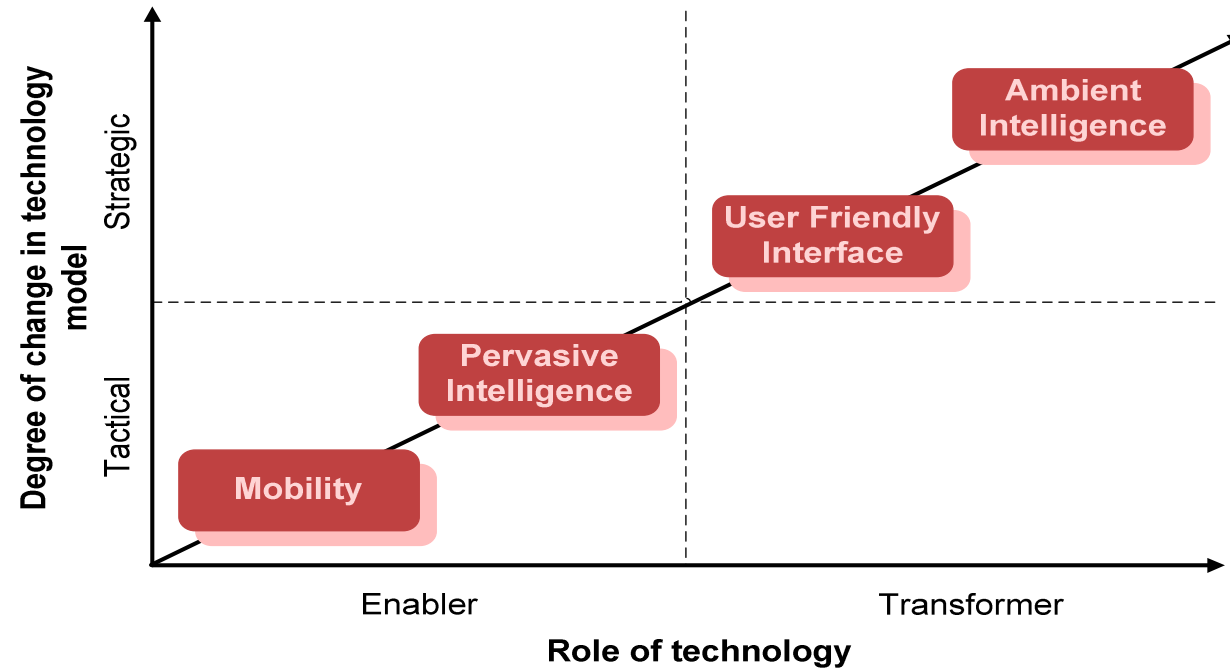


# Objective of Research

- To improve understanding of the AmI paradigm
  - The define
  - To understand
  - To classify

# Overview of AmI

Where did  
AmI come  
from?



# Definition

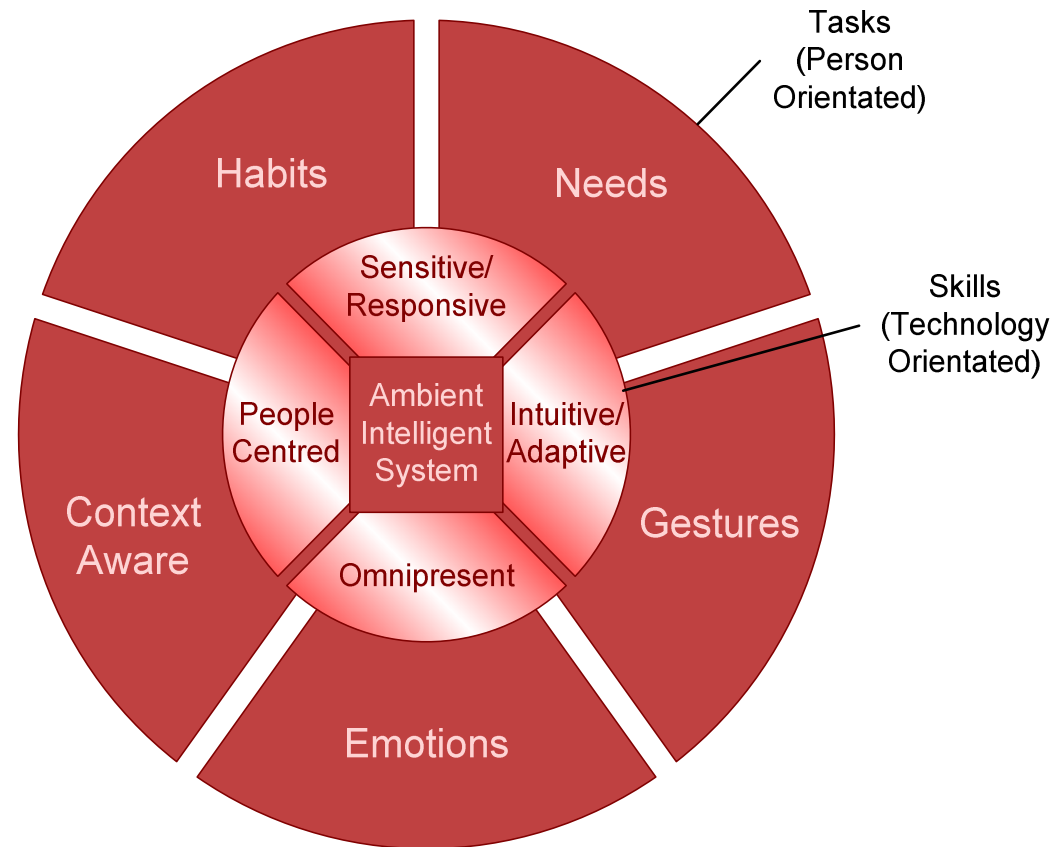
*“Ambient Intelligence (AmI) is a people centred technology that is intuitive to the needs and requirements of the human actor. These non-intrusive systems are adaptive and responsive to the needs and wants of different individuals.”*

(CIMRU & DERI Research)



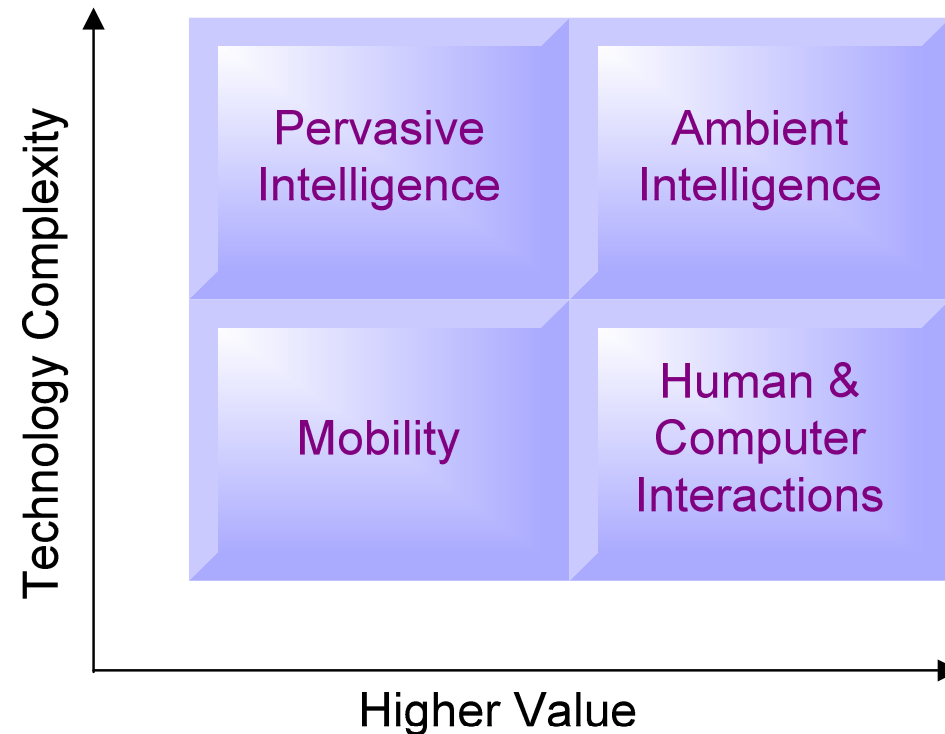
# AmI System Typology

- To further solidify the understanding of AmI
- Highlights the element that need to be considered when developing an AmI system



# AmI Taxonomy

- To show the evolution of technology in relation to 3 areas
- How the evolution has benefited the end user
- Example: The evolution of mobile communications





# Case Studies

<b>Company Name</b>	<b>Country</b>	<b>Business Activity</b>
Brüggen	Germany	Customised change over platform for lorries
TNS	Poland	Customised change over platform for lorries
OAS	Germany	Design & deliver customised control systems
TRIMEK	Spain	Co-ordinate measuring machines
Silcotec Europe	Ireland	Cables, harnesses & electric-mechanical systems
Sidheán Teo	Ireland	Build to order fire appliances

# Conclusion & Future Research

- Evaluation and verification within case studies
- Empirical testing during design and development
- Validation through case studies
- Incorporate developments into Aml systems development methodology

