

COMPLEX AND MULTIVARIABLE:

METHODOLOGY OF EXPLORING DIGITAL LITERACY AND TRAINING NEEDS WITHIN THE POLISH SME SECTOR

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AGENDA

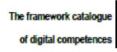
- The Catalogue of Digital Competencies of Small & Medium Enterprises
- Theoretical frameworks
- Methodology & research process
- Outcomes
- Conclusions

THE CATALOGUE

THE FAMILY OF DIGITAL COMPETENCIES' CATALOGUES



Taksonomia funkcjonalnych kompetencji cyfrowych oraz metodologia pomianu poziomu funkcjonalnych kompetencji cyfrowych osób z pokolenia 50+ The Taxonomy and Measurement Methodology of Digital Competencies of People Aged 50+, 2015



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The Framework Catalogue of Digital Competencies, 2015

Katalog Kon Cyfrowych

The Catalogue of Digital Competencies of SMEs, 2016



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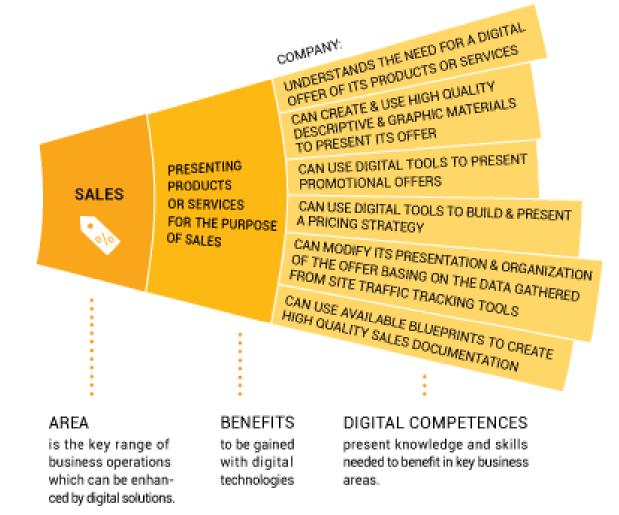
AREAS OF SME'S ACTIVITIES

- I. Sales
- 2. Communication and promotion
- 3. Customers
- 4. Product or services
- 5. Market and competition
- 6. Company management

THE CATALOGUE OF DIGITAL COMPETENCIES OF SMES



CONSTRUCTION



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THEORETICAL FRAMEWORKS

THEORETICAL BACKGROUND

SOCIAL STUDIES

- Pierre Bourdieu
- theory of class distinction
- people's competencies depending on their social status
- Jan van Dijk
- motivation as the main question concerning access and usage of digital media and content
- Filiciak, Mazurek & Growiec
- the concept of media relativity and benefits

INFORMATION SCIENCE

- ALA's definition of information literacy
- a set of abilities enabling individuals to recognize a need of information and to locate, evaluate, and use it effectively
- Digital literacy
- a set of skills required for ICT usage in different contexts

THEORETICAL BACKGROUND: "A BENEFIT" AS A "KEY CONCEPT"

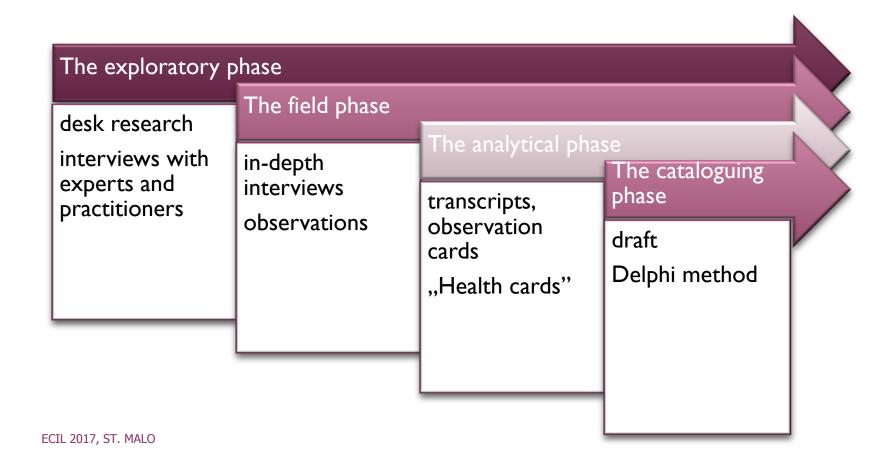
ORGANISATION & MANAGEMENT

- technology-in-practice
- mutual influence of technology and social context
- technologies as instruments supporting attainment of skills necessary to realize tasks and to "extract the benefits from use" (Morgan-Thomas)
- the concept of technological affordance: information processes indispensable in economic activities (Orlikowski & Scott)
- the technology diffusion theory
- the complementarity theory

PSYCHOLOGY & HCI

- the concept of affordances for practice:
- relations between people and technology in organisational contexts (Fayard & Weeks), joining a technological aspect with Bourdieu's sociological idea of habitus.
- "Affordance offers a useful way of thinking about how practice is patterned by the social and physical construction of technology, and the material environment and habitus offers a useful way of thinking about how practice is patterned by social and symbolic structures" [14, p. 247].

METHODOLOGY & THE RESEARCH PROCESS



THE EXPLORATORY PHASE

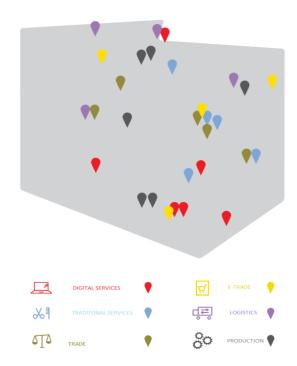
- desk research:
 - theoretical knowledge of the Polish SMEs; classification criteria
- interviews with experts and practitioners:
 - practical knowledge and meta-reflection

THE FIELD PHASE

- 30 in-depth interviews (including dyads and triads)
- observations

SME'S SELECTION CRITERIA

- 1. size less than 100 employees, more than five clients
- independence financially and know-how independent, settled in Poland
- ICT use any type of presence on the internet, use of any ICT solutions in daily work, except fiscal cash register
- experience start-ups, less and more experienced
- location cities, towns, villages, region of Poland
- 6. diversity of respondents age, sex, position in the SME
- 7. area of activity local, international



The analytical phase

- Transcripts of interviews and observation cards
- "Health cards": detailed analysis of qualitative data

The cataloguing phase

- a draft Catalogue by a multidisciplinary team
- definition of benefits related to key areas of SMEs activities
- the Delphi metod verification of the final version of the Catalogue

OUTCOMES & CONCLUSIONS

OUTCOMES

- definition of key areas of online SMEs activities: Sales, Communication and Promotion, Products or Services, Customers, Market and Competition, and Company Management
- and benefits to be achieved
- The Catalogue of Digital Competencies of SMEs
 - "Internet Revolutions" Google project (European Digital Garage) to support development and/or enhancement of digital tools usage in the Polish SMEs
- in-depth & multidimensional evaluation of information competencies and/or needs in the SMEs sector
- verification of methodology & diagnostic tools

CONCLUSIONS

- confirmed crucial role of methodology and a component of relationality in diagnosing information and digital needs and competencies, in workplace as well
- the Catalogue as a roadmap for ICT implementation in Polish SMEs
 - for diagnosig digital competencies in human resources' management
 - for in-depth analysis of potential users' needs and patterns of information behaviors
 - for designing and realisation of education and training services
- required regular revisions and updates
- limitations: qualitative and exploratory character of the project