Application of e-competences in curriculum development
Who’s this fellow?

Professor in Process Innovation & Information Systems @ HU University of Applied Sciences and responsible for the Master of Informatics (MSc.) programme (together with Prof. Marlies van Steenbergen and program director Guido Ongena)

- Business & IT - http://moi.hu.nl/
- Applied Data Science - http://ads.hu.nl/

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From professional profile to curriculum
## From professional profile to curriculum

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### PLAN
- IS and Business Strategy Alignment
- Service Level Management
- Business Plan Development
- Product / Service Planning
- Architecture Design
- Technology Trend Monitoring
- Innovating

### ENABLE
- Information Security Strategy Development
- Information and Knowledge Management
- Needs Identification

### MANAGE
- Forecast Development
- Risk Management
- Relationship Management
- Process Improvement
- Business Change Management
- Information Security Management
- IS Governance
From professional profile to curriculum

Professional profile

Competences

Masterclasses

Education & assessment

Masterclasses

30 EC

4 mandatory masterclasses

Information Management
Strategy & Organisation
Enterprise Architecture
Business Process Management

Digital Transformation
Security
Data & Business

Project Management & Change
Security Management
Business Analytics & Big Data
Data Science for Business

Digital Transformation & Innovation
Ethics in a Digital World

Personal Development, Coaching & International Orientation
Academic Writing & Research Methods
Master Thesis

5 EC
10 EC
15 EC
## From professional profile to curriculum

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From professional profile to curriculum

Education in co-creation with professional practice (up-to-date and relevant)
- Lecturers from practice
- Assignments tailored to practice

Learning outcomes
- e-Competences translated to learning outcomes
- Learning outcomes add additional layer (e.g. specific techniques)

Assessments
- written exams (50%)
- professional product (50%)
- Thesis

| Business models | 
|-----------------|-----------------|-----------------|-----------------|-----------------|
| Hierarchies     | Business processes and technology application | Business processes and technology applied to ICT services | Demands | Systems design tools and methods applications |
| Distributed ledger technologies, IoT, AI, open data | Process and data strategy | Process and data strategy methods | Systems design tools | Soft and applications |
|                | Business strategy | Business strategy methods | Systems design tools and methods | Advanced applications and needs |

Learning outcomes in relation to competences
- Students understand the BPM discipline and how it is used within organizations. Students can relate BPM to other disciplines like BRM, Enterprise Data Management, Enterprise Architecture, Strategic Management. Students understand the BPM lifecycle and can use it to improve processes in organizations.
- Students are able to identify types and trends in relation to BPM. The student has knowledge about the state-of-the-art of both technological and business trends, and can indicate the relation to BPM in these trends.
- Students can recognize potential process improvement areas within their own working environment.
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Added value & challenges

Why e-CF?

Added value

- benchmark for the program against international masters
- recognizable for (some) employers
- sound justification for the curriculum foundation

Challenges

- Training (external) lecturers in using e-CF
- Staying up-to-date with new developments
- Aligning with national initiatives (e.g. HBO-I in the Netherlands)

Opportunity?

- ICT Body of Knowledge could further support developing learning outcomes
- Performance indicators as input to development of assessments
Master of Informatics

Questions?