SVDEM

Knowledge Transfer Model

Collaborative Learning and Knowledge Co-Creation

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Why Knowledge Transfer Matters

- Increasing disaster complexity requires interdisciplinary expertise
- Knowledge is distributed across institutions and professions
- Digital transformation requires continuous learning and adaptation
- Traditional one-way teaching is insufficient for advanced learners

Target Groups and Learning Approach

- Postgraduate students
- Professionals in disaster management and related sectors
- Lifelong learning (LLL) participants
- Learning based on interaction, experience exchange, and problem solving

Collaborative Learning in SUDEM

- Scenario-based group learning
- Interdisciplinary cooperation between learners and trainers
- Shared analysis of complex disaster situations
- Learning through discussion, feedback, and practical activities

Knowledge Co-Creation

- Learners contribute professional experience and expertise
- Knowledge evolves through practical application and reflection
- Feedback loops improve methods and learning materials
- Trainers and learners jointly develop solutions

SUDEM Knowledge Transfer Model

- Co-Creation ↔ Learning ↔ Application ↔ Feedback ↔ Improvement
- Knowledge transfer is continuous and collaborative
- Learning is integrated with practice and system design
- The model supports adaptation across institutions and countries

Role of the Curriculum

- 11 interconnected courses covering the full disaster management workflow
- Integration of AI, IoT, edge computing, resilience, and decision-making
- Structured progression from monitoring to coordinated response
- Curriculum provides the framework for collaborative knowledge creation

Role of Scenarios and Practice

- Scenarios connect courses into one coherent learning system
- Practical exercises simulate real disaster environments
- Learners apply knowledge collaboratively
- Shared scenarios support interdisciplinary understanding

Role of Trainers

- Facilitators of collaboration and knowledge exchange
- Guide learners through system-level understanding
- Connect modules, technologies, and workflows
- Adapt delivery to HE and LLL contexts

Role of the Digital Platform

- Supports blended and flexible learning
- Provides access to lectures, readings, exercises, and scenarios
- Enables continuous updates and feedback integration
- Supports scalable knowledge sharing across Europe

From Learning to Capability

- Analyse and structure disaster management systems
- Design monitoring and decision-support solutions
- Apply AI and IoT in real-world contexts
- Coordinate distributed response systems and improve resilience

European Impact and Scalability

- Supports harmonised disaster management education
- Enables knowledge exchange between institutions and professionals
- Applicable in higher education and lifelong learning
- Creates a sustainable ecosystem for continuous improvement

Key Message

- SUDEM transforms knowledge into capability through collaborative learning and knowledge co-creation
- The model connects education, practice, technology, and continuous improvement
- Knowledge is not only transferred — it is continuously created and refined