Welcome at the
Centre for Learning Sciences and Technologies
(CELSTEC)

Wim Westera, Open University of the Netherlands
Otec → CELSTEC

Centre of Learning Sciences and Technologies
- Learning and Cognition
- Learning Networks
- Learning Media
- Lifelong learning services
- Masters programme Learning Sciences
- PhD Programme
Learning & Cognition Programme

• Cognitive principles of:
  – Learning tasks
  – Learning environments
  – Learning assessments

• Director Fred Paas
Learning Networks Programme

• Informal and distributed learning
  – Professional development
  – Learning network services
  – Professional communities
• Director Peter Sloep
Learning Media Programme

• Exploration of new media technologies for education
  – Immersion media
  – Social media
  – Mobile media
• Director Wim Westera
• Celstec Laboratory
1. Immersion media

- Virtual laboratories/virtual practicals
- Real world complexity
- Computational dynamics/ simulations
- Serious games
- Virtual worlds

*How can we optimise the conditions for learning by incorporating rich, immersion media that simulate real world practices?*
2. Social media

- User-generated content
- Data mashups, content aggregation
- Tool aggregation
- Socio-cultural codes
- Media literacy
- Collaborate work

How can we optimise the conditions for learning by incorporating social media and rich media services for the exploitation of the collective expertise and creativity of learners?
3. Mobile media

- Cross media authoring and delivery
- Ubiquitous access
- Location-based learning
- Contextualised, personalised learning
- Mixed & augmented reality learning

*How can we optimise the conditions for learning by incorporating ubiquitous, adaptive and contextualised mobile media?*
Widened scope of the MediaLab

1. Media technologies for experimentation
2. Shared facilities for Otec/Celstec programmes
3. Open collaboration with external parties
4. Hot desking arrangements
5. A stage in the innovation cycle: joint experimentation, dissemination, valorisation
Directed by Celstec

Laboratory

R&D → Experiments → Implementation → Appliance

Directed by partners

Celstec staff

Partner staff

CELTEC

celstec.org
Lab experimentation

- Grounded in Celstec R&D activities
- Attuned to specific problem case
- Contextualised testing
- Showcase
MediaLab concept: user contexts
Laboratory floor plan

1.26 Media Lounge
1.28 Hot Desking Room
1.29 Hot Desking Room
1.30 Admin Room
1.31 Lecture Room
1.32/33 Team Room
1.34 Observation Room
1.35 Usability Room
1.36/37 Educator Studio
1.38 Hot Desking Room
1.39 Hot Desking Room
1.40 Server Room

Legend:
- Group work
- Hot desking
- Measurement
- Lab management

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