Improving k-12 teacher's practice in Brazil with project-based learning and virtual tools

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New Pedagogical Architectures
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Problem-Based Learning

Implementation experiences

- **2010-2014**

  Training 2.600 k-12 teachers in São Paulo

  Graduate prog. “Ethics, values and citizenship in school”

  University of Sao Paulo (USP) and

  Virtual University of Sao Paulo (UNIVESP)

- **2014-2018**

  BS 2.000 science teachers and 1.300 Engineers

  Virtual University of Sao Paulo (UNIVESP)

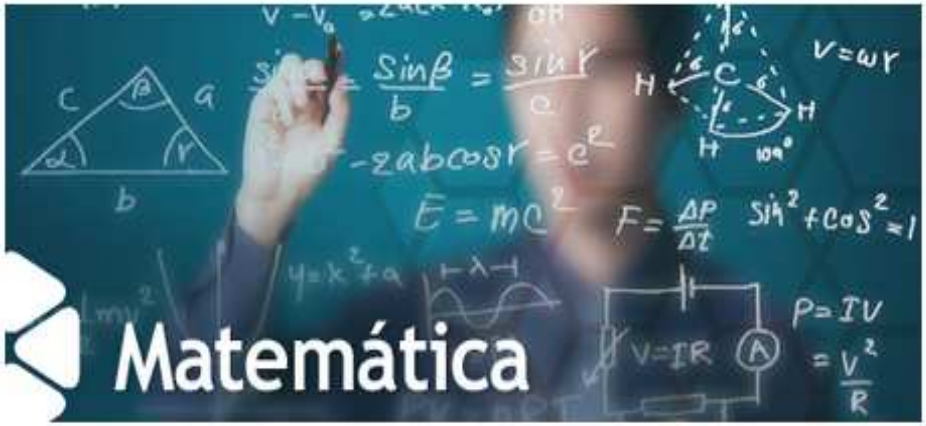
Principles guiding the projects

- Blended Learning
- Friendly LMS interface, based on images not textual
- Diversity in learning
- Knowledge transmission through videos
- Collaborative environment
- Learn by doing
- Problem/Project-Based Learning and Design Strategies

Ética, Valores e Cidadania na Escola

Engenharia

1° Bimestre - Minhas Disciplinas



Organização Didática

Projeto Integrador

Organização Didática

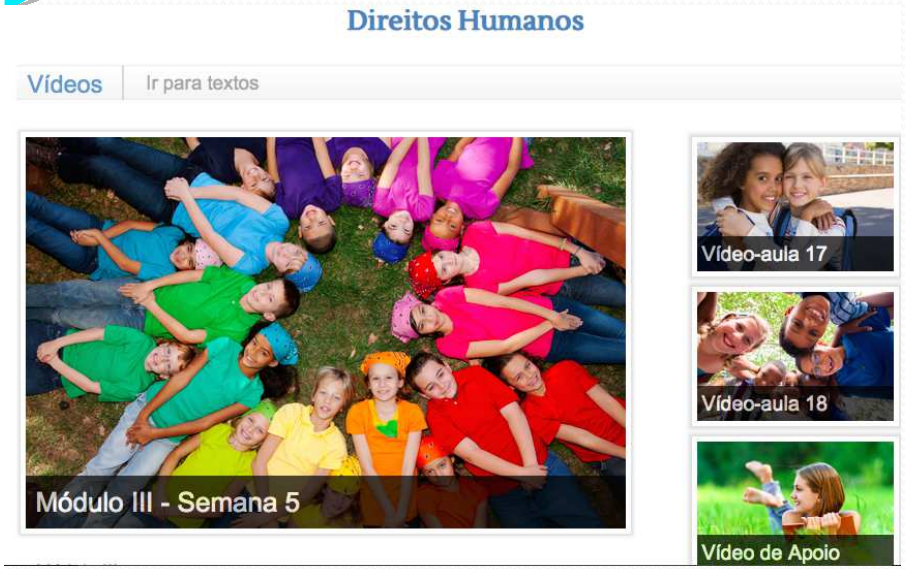
Semana 1 - Bimestre 1

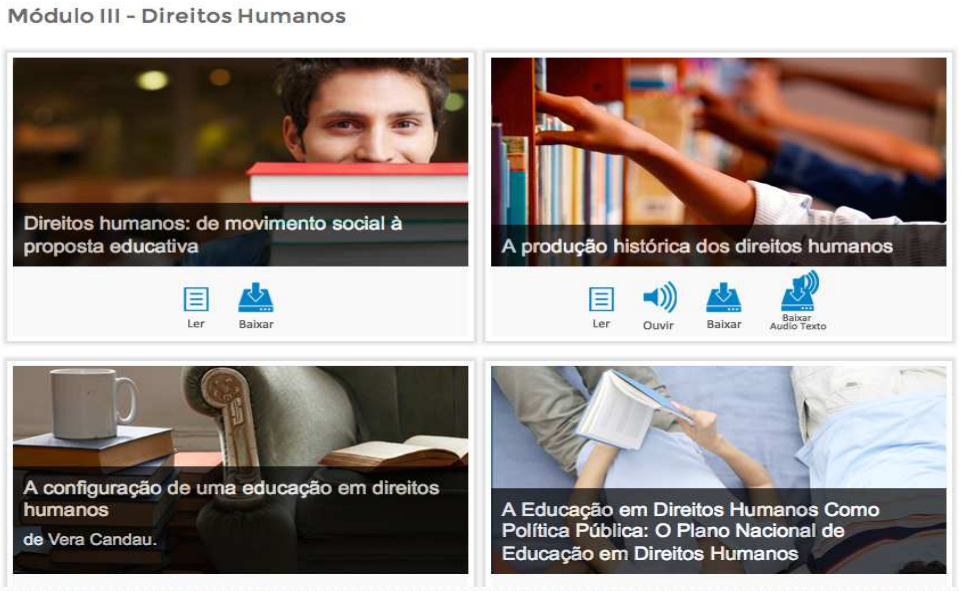
ENGENHARIA

UNIVESP
Universidade Virtual
do Estado de São Paulo

Linear didactic organization

Diversity in Learning



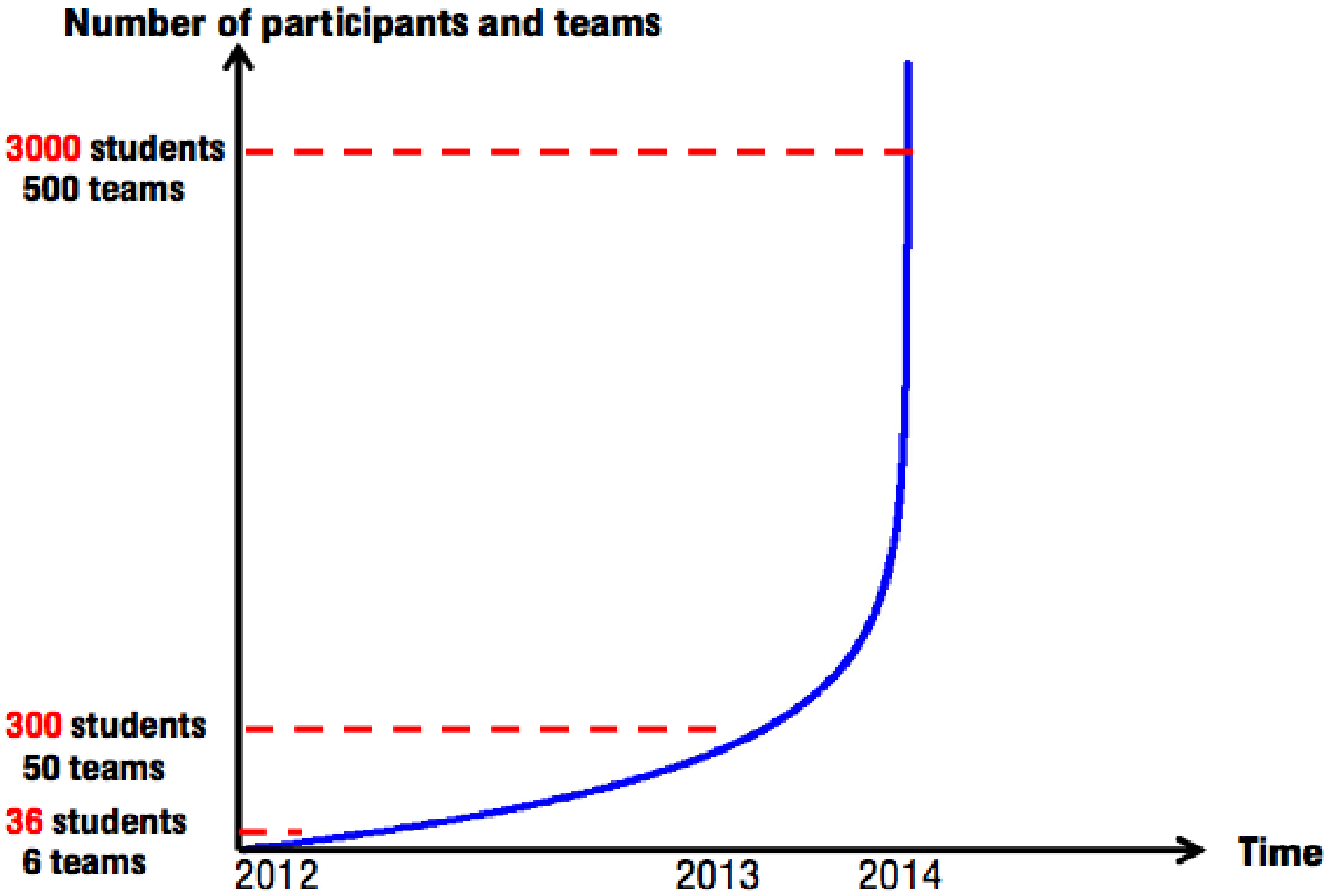


Videos as the main source for knowledge

Blended, collaborative and learn-by-doing

Student developed Wikipedia entry: Regional Guitar Orchestras in Sao Paulo

Dissemination and Scalability Impact



Mentoring - Fishbowl

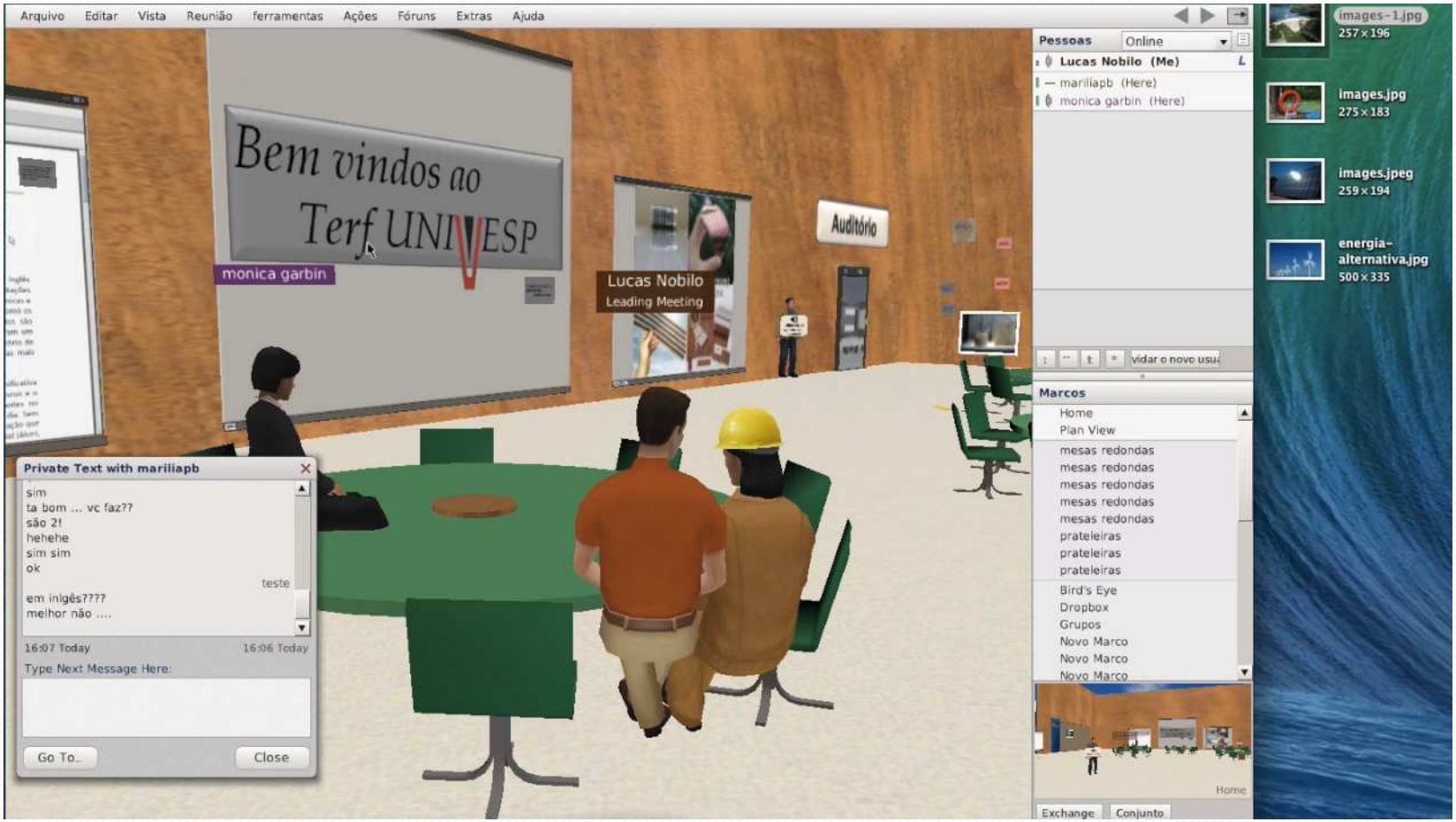
Knowledge transfer:

- **PBL Lab Stanford → UNIVESP**
- **Engineering → Humanities**

Collaborative 3D Environment

Knowledge transfer:

- **PBL Lab Stanford → UNIVESP**
- **Engineering → Humanities**



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