# E-learning and Research in ICT Solutions for Education at CESUP/UFRGS: 2008-2014

André Soares Grassi Denise Grüne Ewald

Centro Nacional de Supercomputação Universidade Federal do Rio Grande do Sul Porto Alegre, Brasil

asgrassi@cesup.ufrgs.br www.cesup.ufrgs.br

May, 2014







2009



1998











**HPC** services

2009-2014: 245 projects (251 scientific publications)







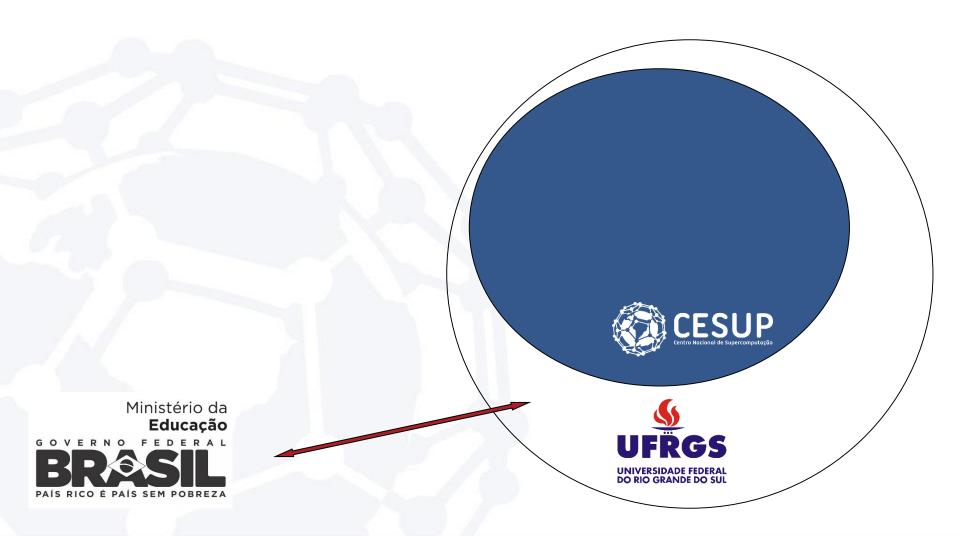






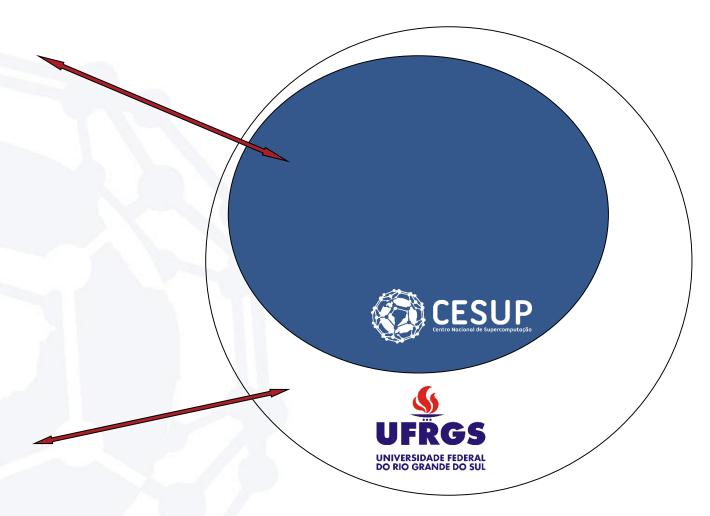


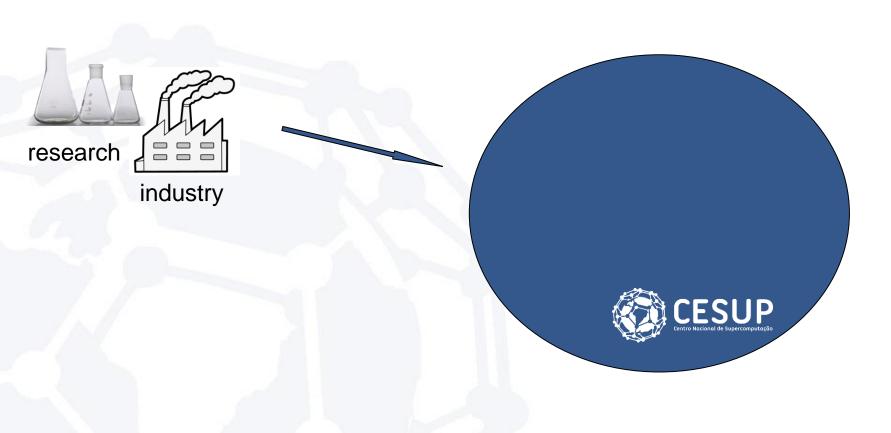


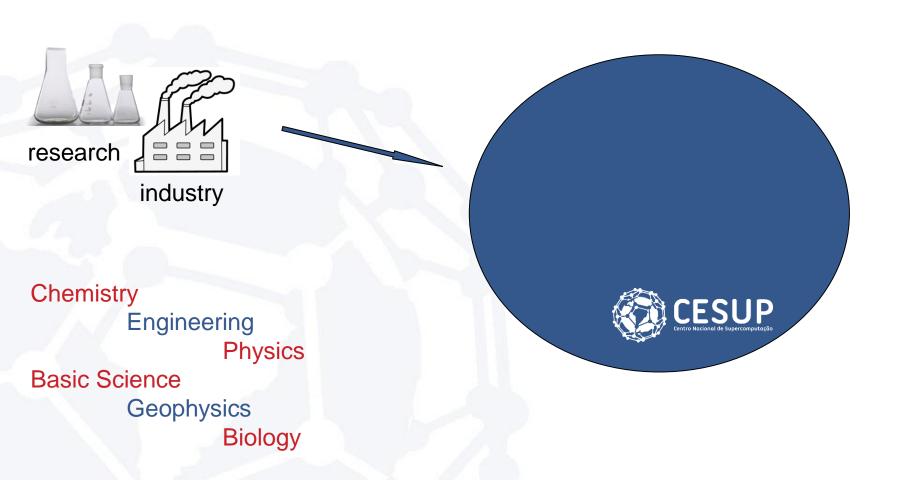


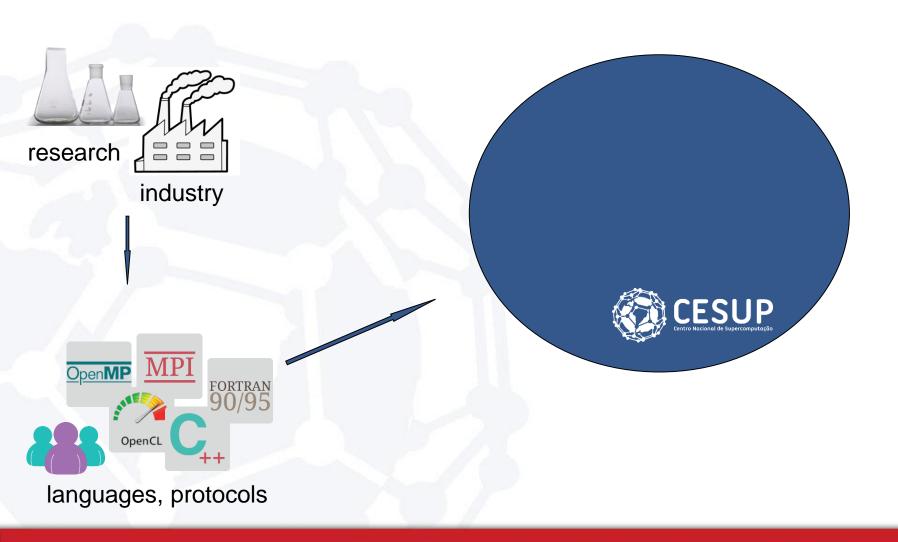




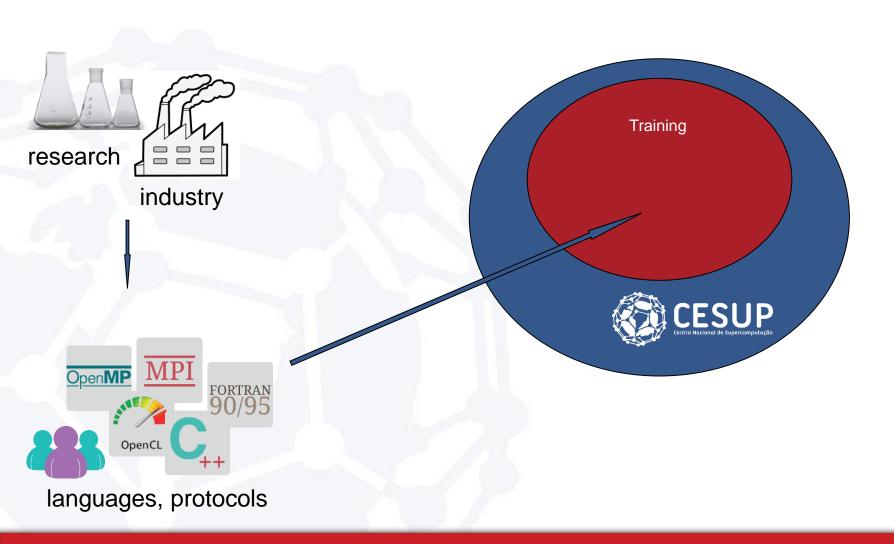








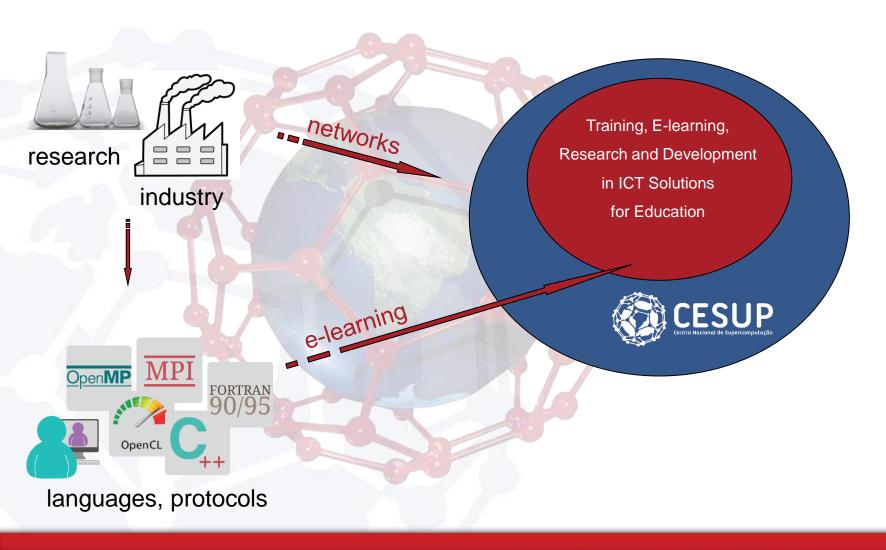
#### Situation – 1990s

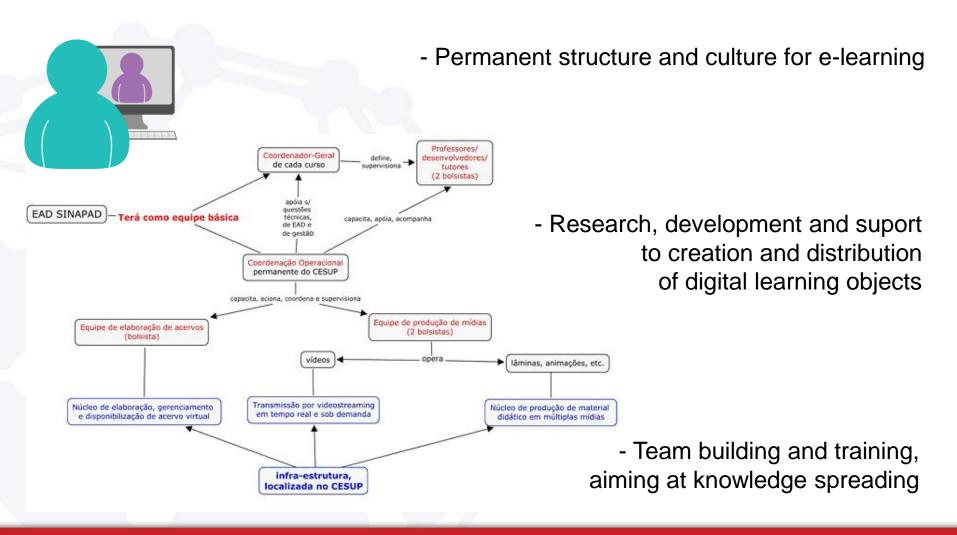


#### Situation - 2000s



#### Situation – 2000s







Financing for equipment and building:
- Edicts UFRGS

Edicts Ministério da Ciência,
 Tecnologia e Inovação



**Human Resources:** 

- University employees (technicians)
- University scholarships (undergraduate and graduate students)
- Government technological development scholarships (undergraduate and graduate students)



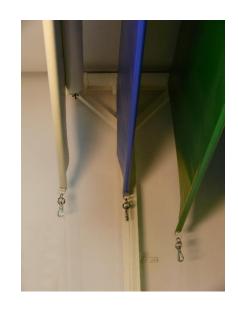




- Agility (plug and play)
- Versatility (equipment and team)







- Agility (plug and play)

- Proper room for recordings (space, light, sound)
  - Basic equipment mounted
    - Realtime capture/editing







- Versatility (equipment and team)

- Second editing equipment (advanced)
- Complementary equipment and software
  - Creativity, research, curiosity



Priority field: HPC training

Lâminas da parte 2 do módulo 2









HPC and computing courses









Public relations and visual identity







Educational videos and training

Secondary field: courses in other areas, research, partnership, consultancy, spreading knowledge, training, public relations...



Educational game



Results and Future

- 2008-2014: 372 students
in 12 courses of PAD;
125 students
(teachers and technicians of the university)
in 13 courses of ICT for Education

- Equipment upgrade (2014)
- CESUP new building (2015): design and planning for Educational space



### Thank you!

André Soares Grassi / Denise Grüne Ewald asgrassi@cesup.ufrgs.br www.cesup.ufrgs.br



UFRGS

UNIVERSIDADE FEDERAL
DO RIO GRANDE DO SUL

May, 2014

Acknowledgements:
Maria Isabel Timm (in memorian)
Daiana Vivan
Andreza Stefani
Renata Rosat

E-learning and Research in ICT Solutions for Education at CESUP/UFRGS: 2008-2014

