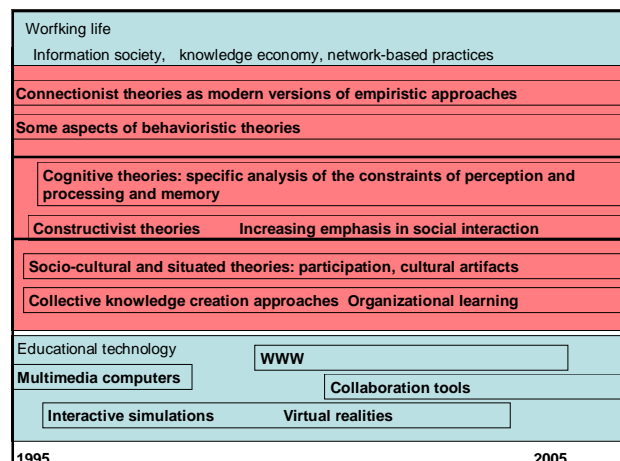
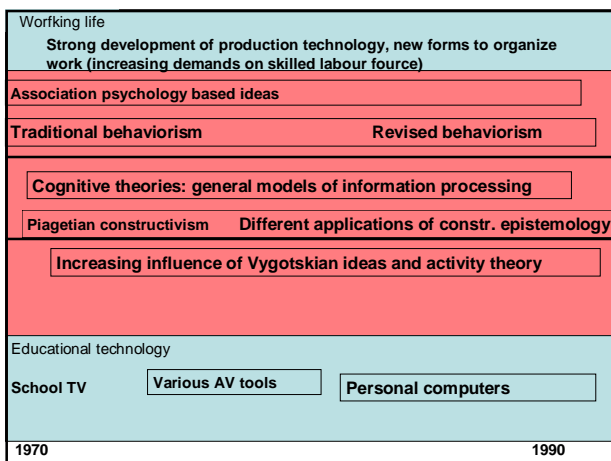
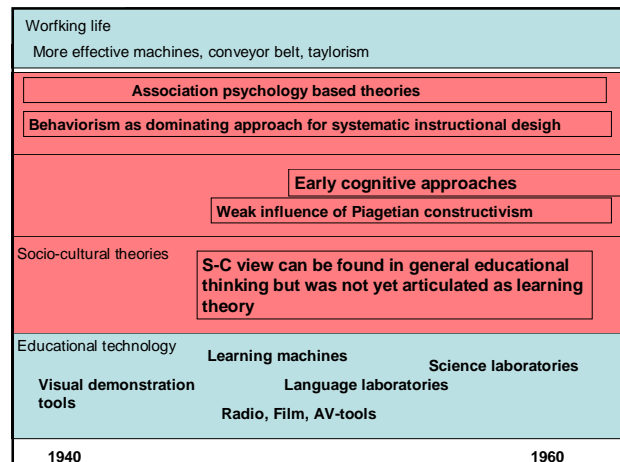
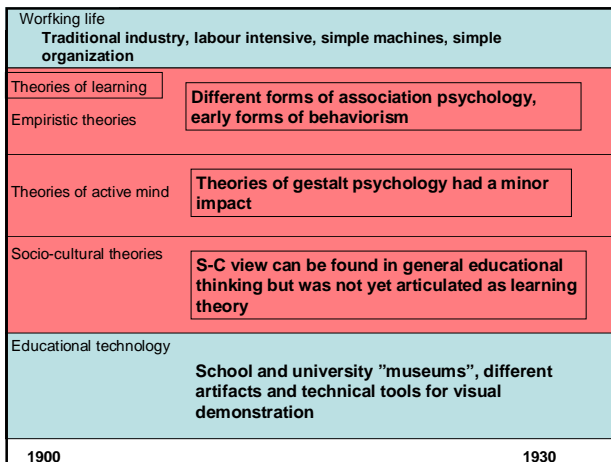


# Technology, Culture and University Education

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## Culture, society and economy: How cultural environment constrains and challenge university teaching?

- Ivory tower with open doors
- Pure basic research and socialization into scientific culture have never been only tasks of universities
- Not only discipline based knowledge but also general key competences (e.g. OECD, DeSeCo):
  - use and adapt a wide range of 'tools', including not only IT, but also language, symbols and text, as well as knowledge and information, for interacting effectively with their environment;
  - interact in heterogeneous groups, which includes the ability to relate well with others, to cooperate, and to manage and resolve conflicts;
  - and take responsibility and manage their own lives, i.e. to act autonomously.
- Educational technology in cultural context



## New challenges, university teaching and technology

- Minority of students are traditional full-time students who are physically present at campus
- Universities should prepare students to deal with collaborative work and problem-solving practices
- Modern science has moved towards thinking and explanations which are probabilistic and complex by nature
- Processes taking place do not have simple causes but many fundamental processes in nature and society are emerging through the complex interactions between elements in the system
- Traditional teaching methods are not well prepared to cope with these challenges
- Need for better technology supported learning environments