

Informatics Education in Germany



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ESSEN

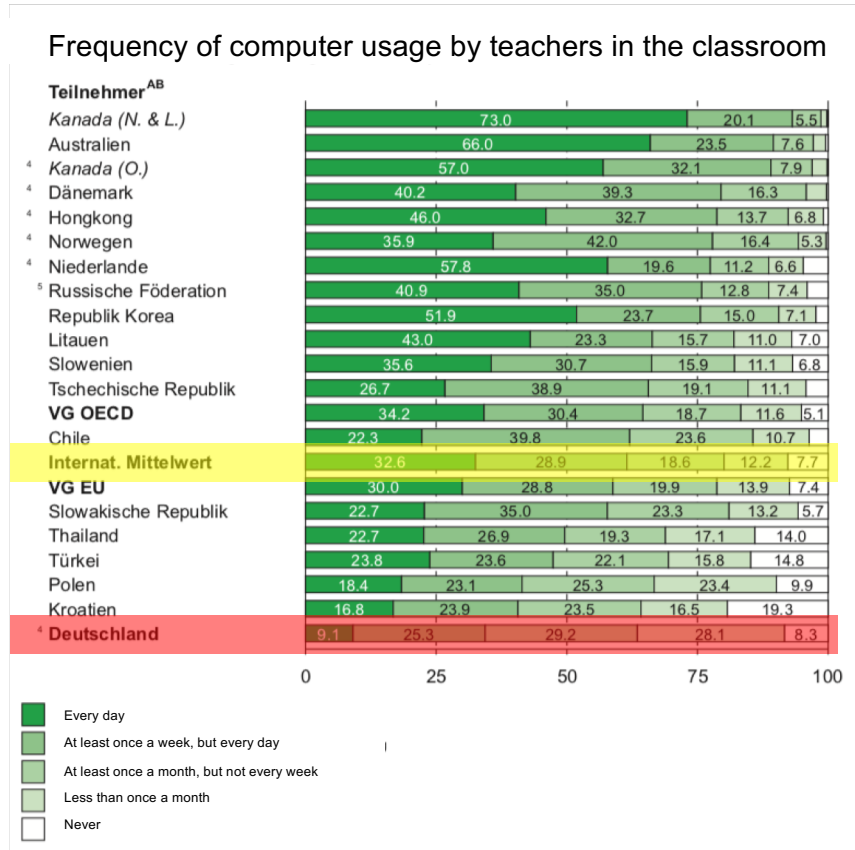
Open-Minded

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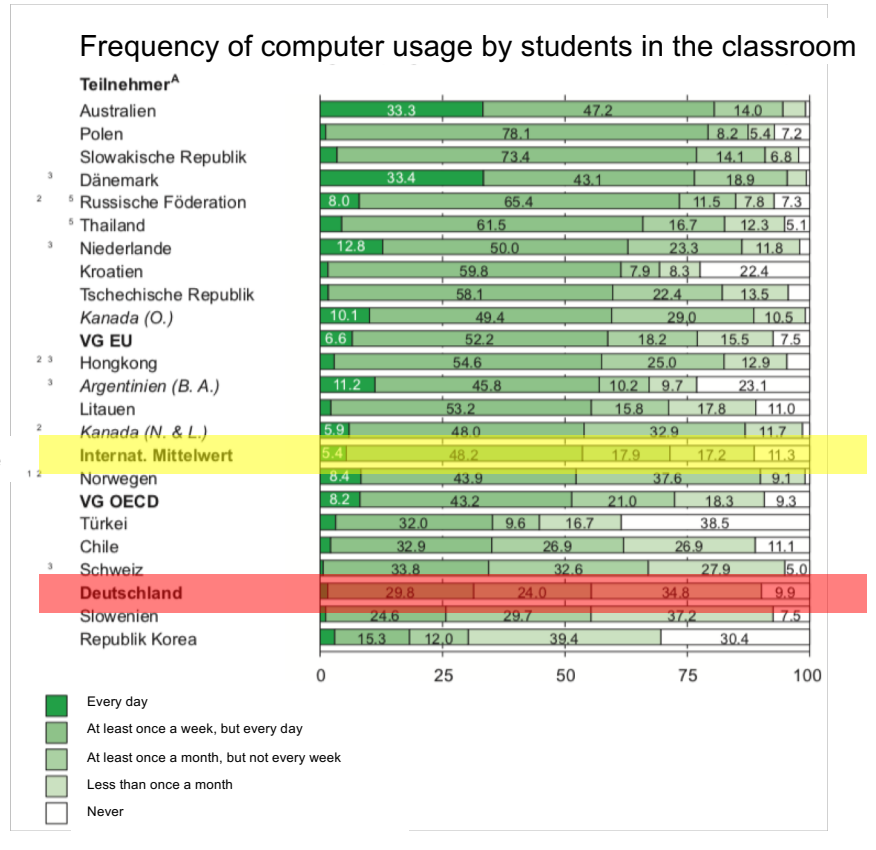
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ICILS 2013 results influenced political situation

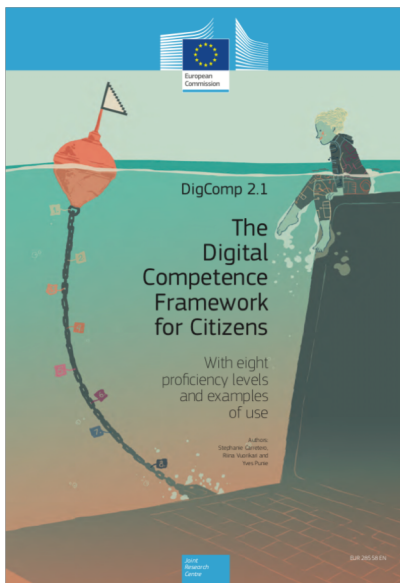


Intern. average

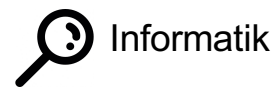
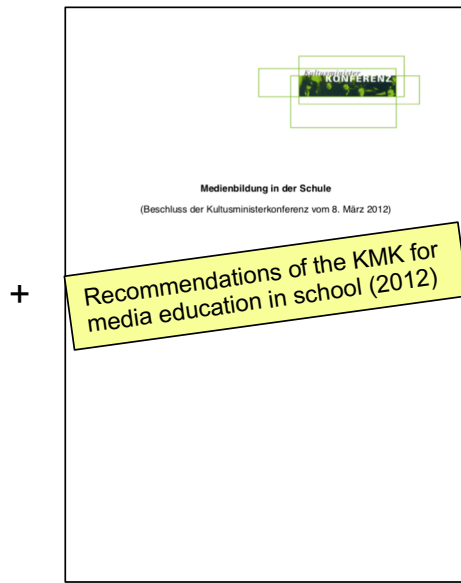
Germany



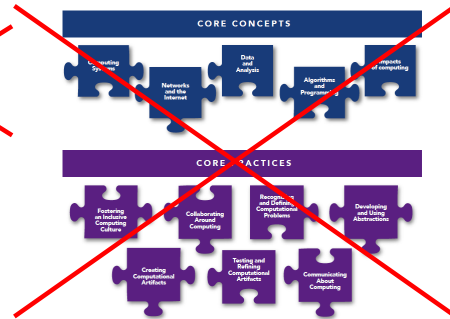
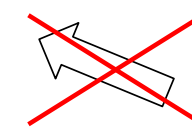
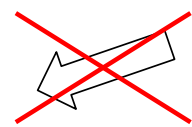
Strategy of the German Standing Conference of Ministers of Education and Cultural Affairs (KMK): Education in the digital world



“European Framework”



**Document was searched.
No matches.**



K12CS

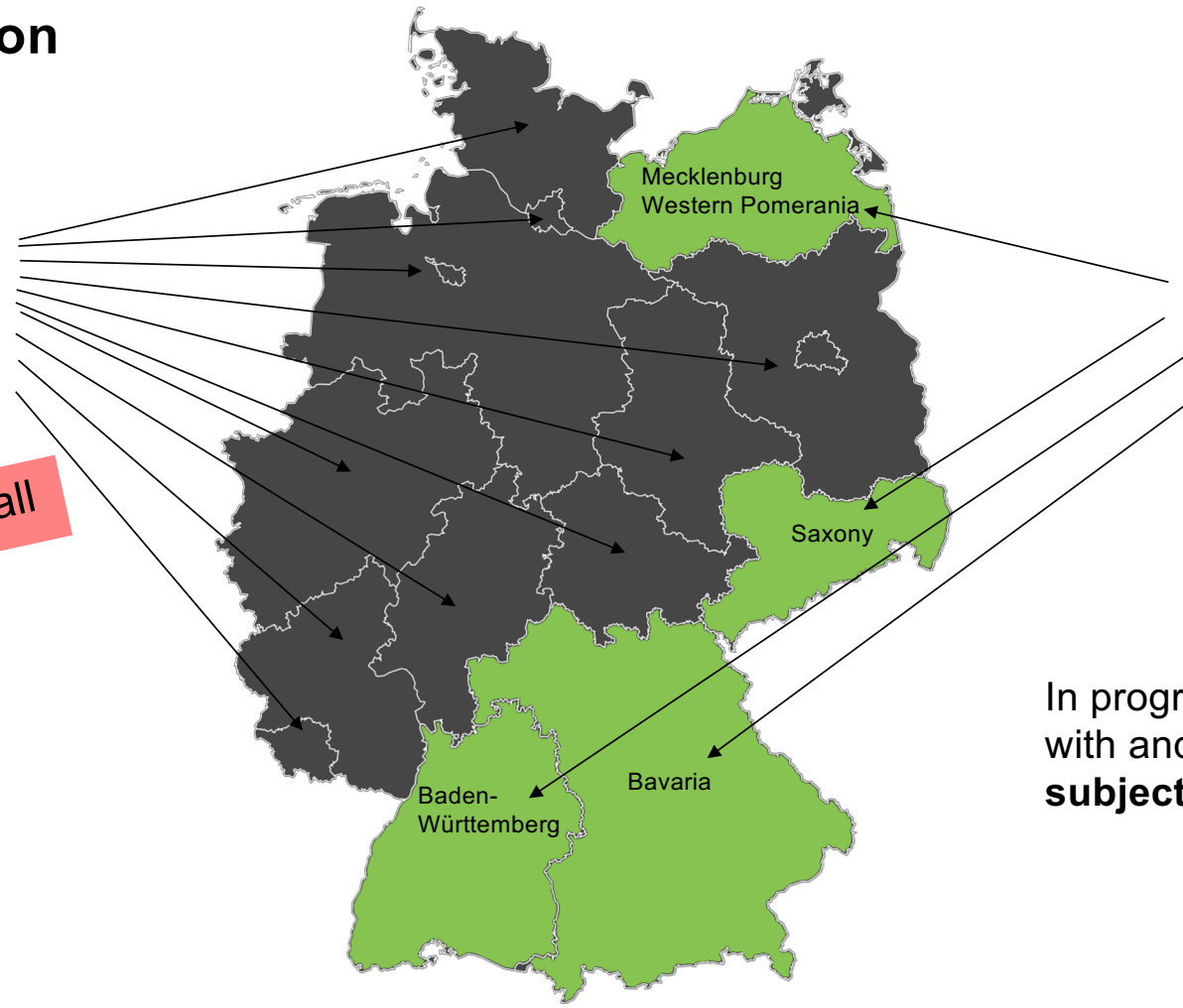
German situation

Informatics as a
mandatory
optional or
optional school
subject

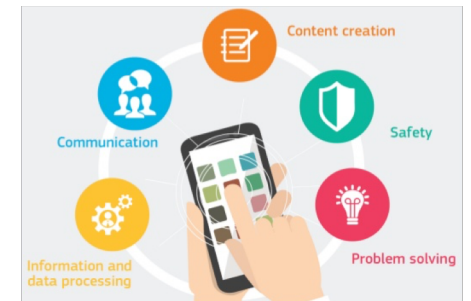
Informatics as a
mandatory
school subject

InformaticsNot4all

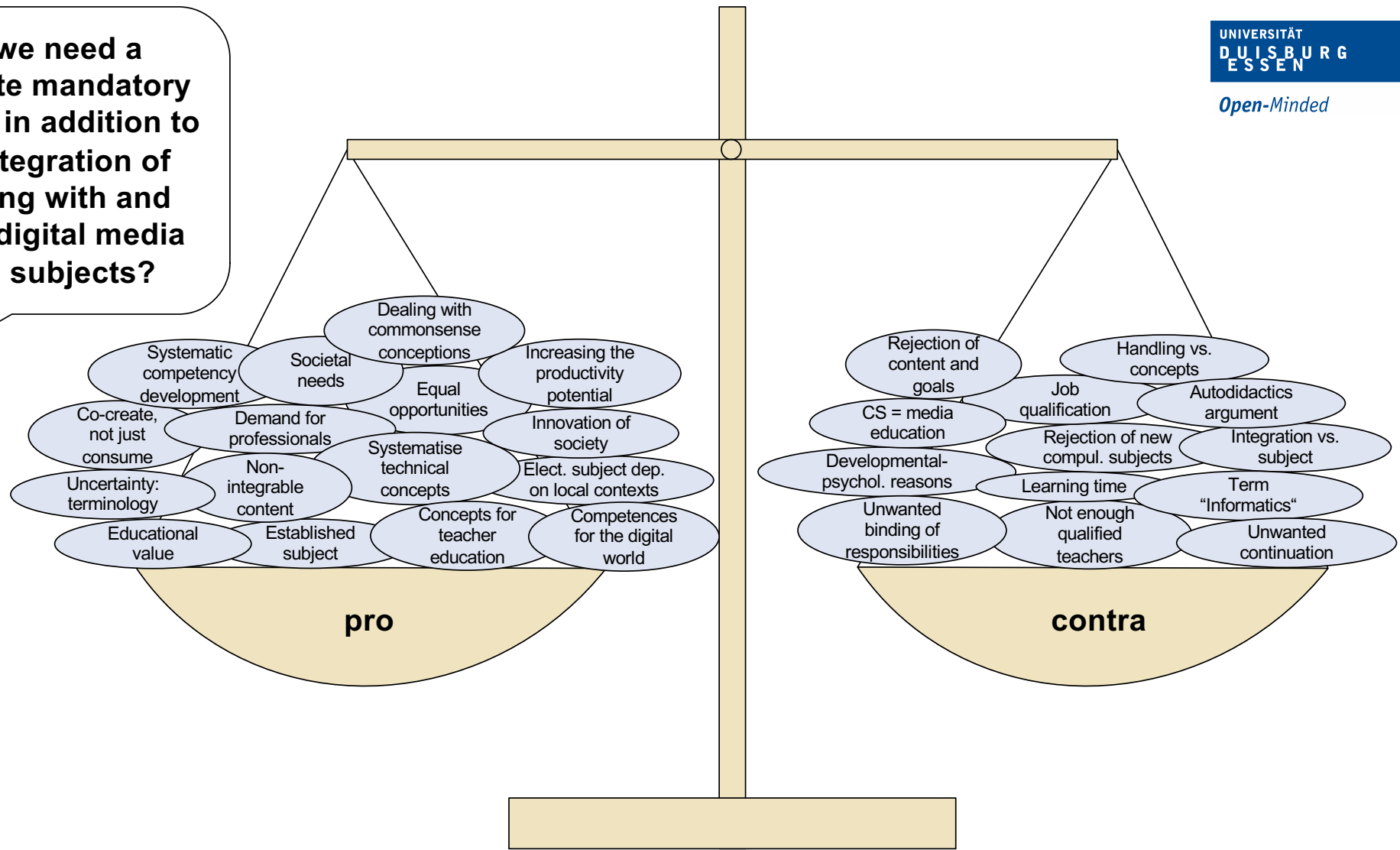
Informatics4all



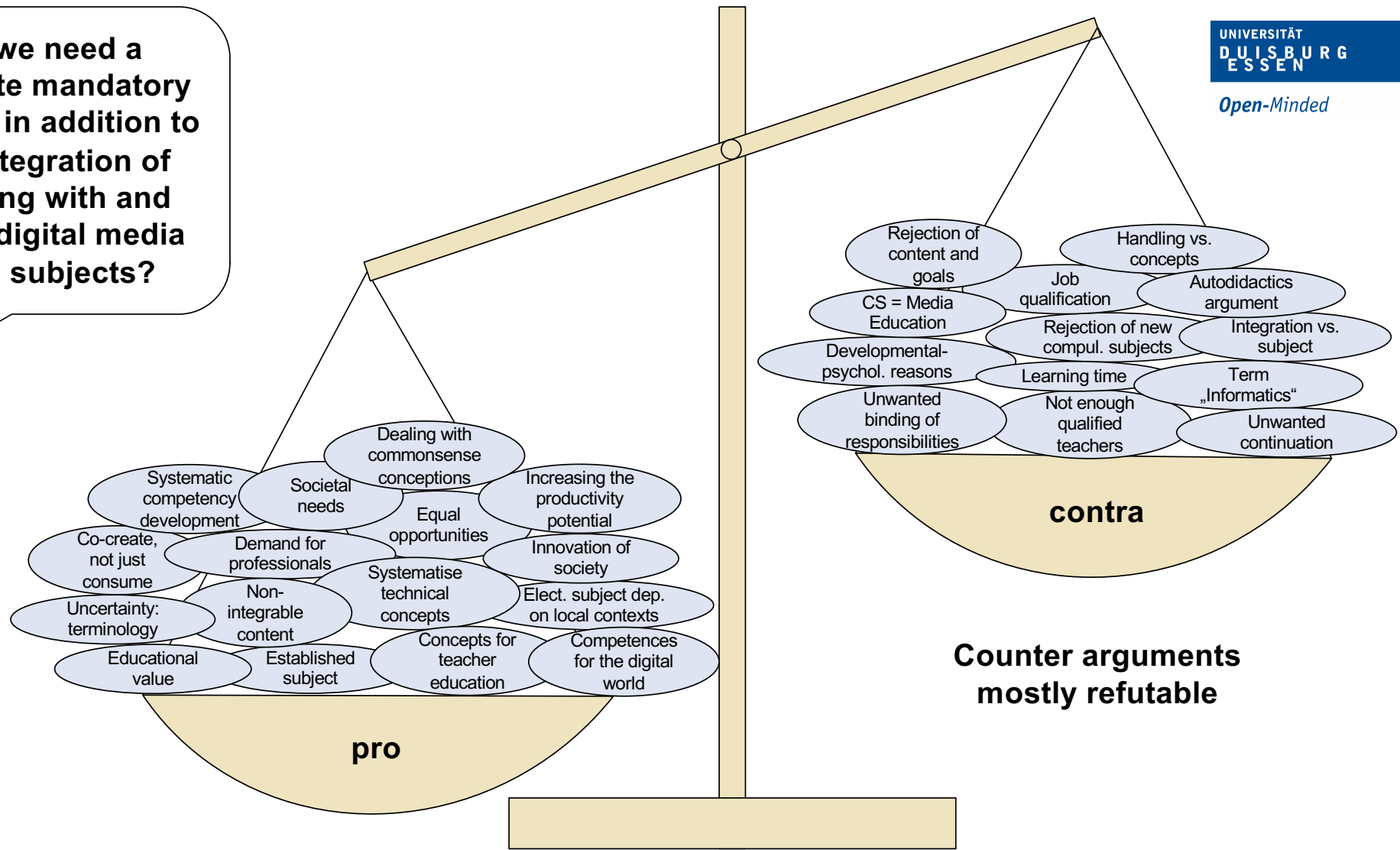
In progress: integration of learning with and about digital media in **all subjects** (KMK strategy), includes:



Do we need a separate mandatory subject in addition to the integration of learning with and about digital media in all subjects?



Do we need a separate mandatory subject in addition to the integration of learning with and about digital media in all subjects?



Further challenges

- Teacher professional development (All teachers, CS teachers)
- Media education representatives
 - are better networked with educational politics than representatives from the computer science education community
 - have key positions in the ministries of education and thereby presumably prevent the extension of computer science education at school
- Educational politicians
 - Lack of understanding, what Informatics/CS
 - Tendency to avoid conflicts → competencies abstractly delegated into other subjects
- Many stakeholders: other stuff is more important (reading, writing, maths, ...)
 - CSE should only be part of vocational training
 - Students learn a lot about the use of computing systems during their spare time with peers – why therefore waste lessons in schools

(Recommendations for) Actions

- Make sure, Ministers are reached with recommendations
- Provide some concrete recommendations, how to overcome the problem of limited resources concerning time etc.
- Decide on a qualification framework for teachers, who teach computer science
 - Maybe also for those, who have to integrate CS aspects in the ordinary teaching of their subjects
 - Fundamental CS competences for teachers
- Write a paper from the educational politicians' perspective: what are the benefits for them, ..., how to avoid conflict, ...
- Make recommendations available in different languages

Thank you for your attention!



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