

THE COMPLETE INTEGRATION OF TECHNOLOGY EDUCATION IN THE COMPULSORY SCHOOL CURRICULUM

- *A CONCEPT OF THE MODERN SCHOOL
WITHOUT ALTERNATIVE*

Ph.D. Damir Purković
Ass.Prof.Ph.D.Ph.D. Jožica Bezjak
Ph.D. Stjepan Kovačević

Background

- ***Today's society require competencies:***
 - ***For quick adaptation at the new environments;***
 - ***For managing at the new and unfamiliar conditions;***
- ***These competencies include:***
 - ***Communication skills,***
 - ***Solving problem skills,***
 - ***Procedural knowledge,***
 - ***Collaborative skills,***
 - ***Skills for innovative and creative activity***
 - ***...***

Background

- ***Traditionalistic education (today predominantly in Europe) - does not achieve these competencies;***
- ***We need a radical change of paradigm and approaches for transforming education system.***

The main problems

- ***Deterministic human disposition...***
 - ***These competencies can not be acquired at each stage of development nor in a standard school environment;***
 - ***The development of these competencies leaves left to chance and the conditions of their own living environment of students.***
- ***Education systems only partly respected scientific observations about new paradigms and approaches to education.***
- ***Compulsory education is still a collection of unrelated and decontextualized teaching subjects and areas.***

Analisisys

- ***Technology education – the only alternative that is through meaningful concepts, approaches and activities can develop:***
 - ***System approach to problem solving;***
 - ***Adaptive and anticipatory students' competences.***
- ***Integrative function - the comparative advantage of technology education:***
 - ***connect knowledge from different fields in meaningful contents, products and concepts.***

Analisisys

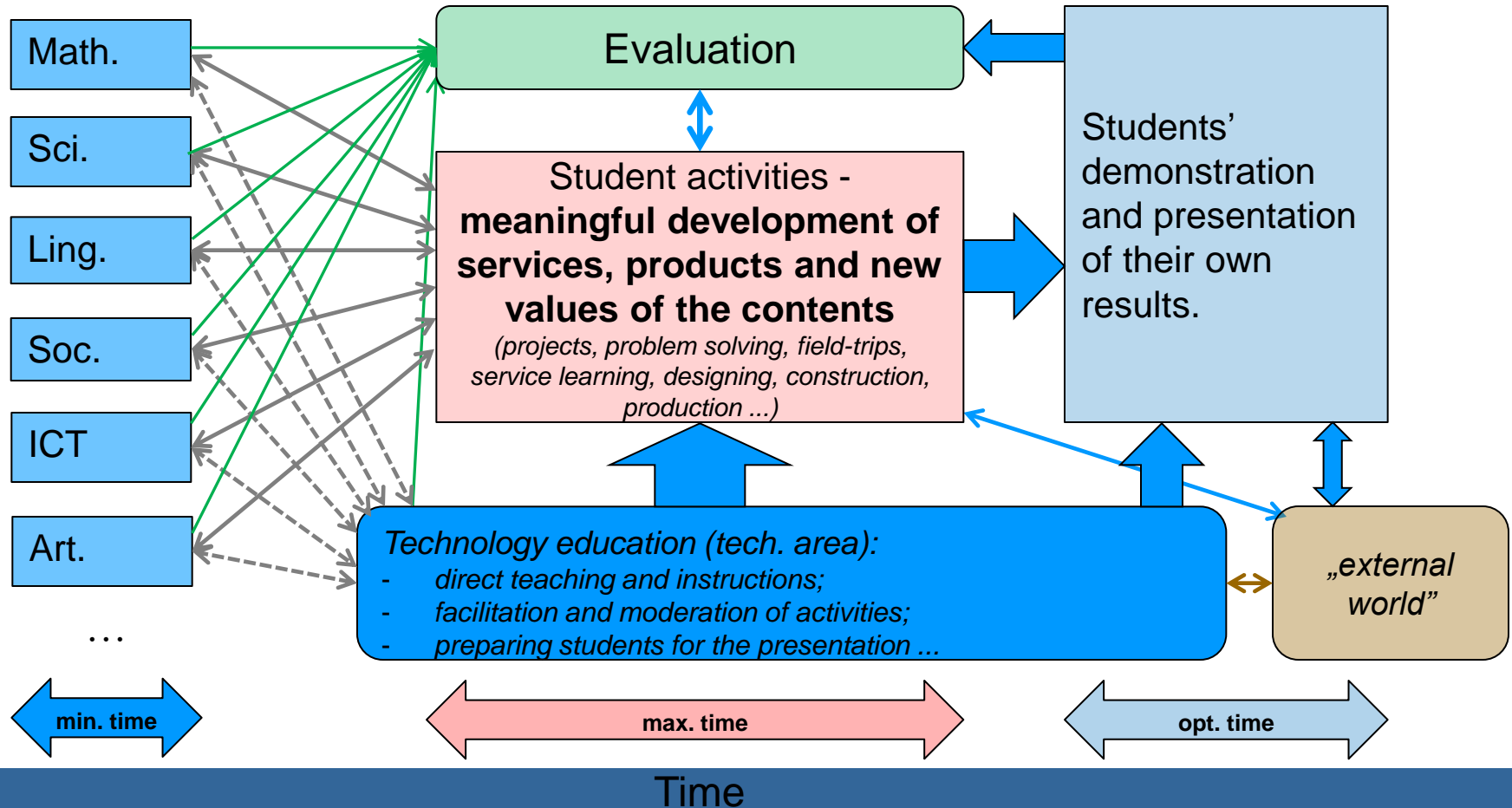
- ***Other advantages of TE:***
 - ***Students during the process of self-realization acquire a real knowledge, skills, values and attitudes;***
 - ***develop their own mental mechanisms which are necessary for the coping with the new circumstances.***

Possible solution

- ***The concept of modern general and compulsory education should start from the points of view:***
 - ***Teaching subjects provide only informations which meaning receive during the meaningful development of services, products and new values of the contents,***
 - ***This development is in fact the technical and technological part of the curriculum.***

Concept of the Modern School

Teaching areas



Concept of the Modern School

- ***This concept proposes:***
 - ***Minimum time for the presentation of educational contents,***
 - ***Maximum time and environment for the realisation of collaborative activities,***
 - ***appropriate time for the student demonstrations and presentations,***
 - ***Responsible position of technology teacher, as a moderator of the most student activities.***

Conclusions

- ***Realization of this concept requires:***
 - ***breaking rooted teaching clichés, especially in the "important" subjects (math, ling, sci ...),***
 - ***radical transformation of teachers' awareness about their own role in the development of student competences.***
- ***This concept provides:***
 - ***special role of the technology teacher as the main facilitator of activities,***
 - ***Integrative role of technical (technology) teaching area in the school curriculum.***
- ***This is a concept without adequate alternatives for societies that want to be "society of knowledge" and "society of economic prosperity.***

But ...

- **Creators of the education system and politicians need more information about reality, and ...**
- **... the stronger arguments for changes ...**
- **... and more courage to changes implementation !!!**

- **Thank You!**