

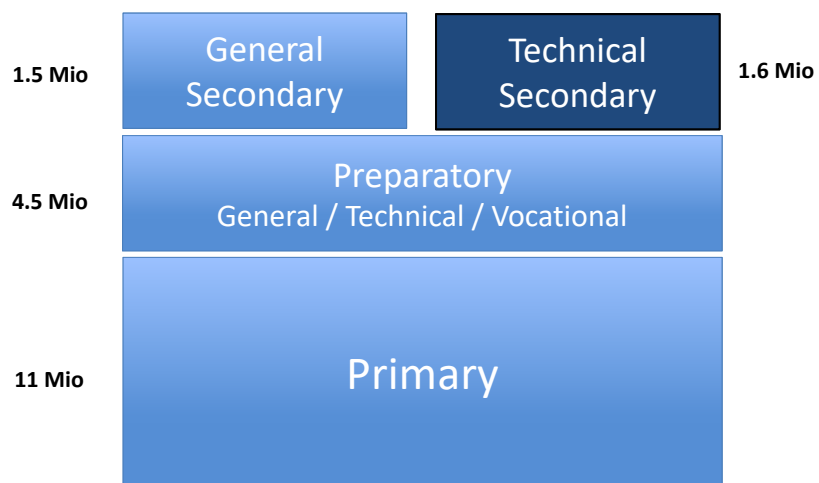
ICT and E-Learning in Technical Secondary Education

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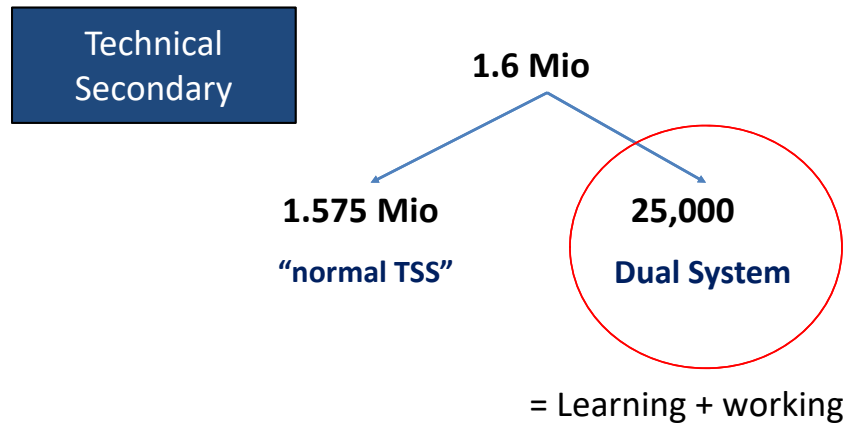


The Environment:

Technical Secondary Education



Technical Secondary Education



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ElSewedy Technical Academy (STA)



- Corporate TSS
- 100% scholarship (+ pocketmoney)
- Learning (2 days/week) and working (4 days)
- Competency-based
- Max. 16 students per class
- Blended learning
- Integration of the internet into the classroom
- Tablet classes

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The Conditions:

- 5 different 3-years programmes (dual system)
- 542 students in 33 classes (max. 16 stud./class)
- 7:00 a.m - 3:00 p.m. at school/company
- 6 days per week (2 days STA, 4 days company)
- Transportation up to 1.5 hours one way
- Students wake up at ca. 4:30 am

How to implement E-Learning under these conditions?

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The Conditions:

Learning Culture

- Concentration on “knowledge” (not competence)
- We think that students learn what teachers teach
- Students learn “to repeat” not “to comprehend”
- Teachers often just “broadcast” the content
- Students learn what is required in the examination
- Bad reputation of TVET and it’s impact on teacher education
- Students have learned to sit and pretend to listen

How to implement E-Learning under these conditions?

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Knowledge must be ...

- delivered } **teaching**
- absorbed } **learning**
- digested } **learning**
- applied } **learning**

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Facts, figures, dates, ...



Memorise,
learn by heart,
repeat, repeat, repeat

Facts, figures, dates, ...



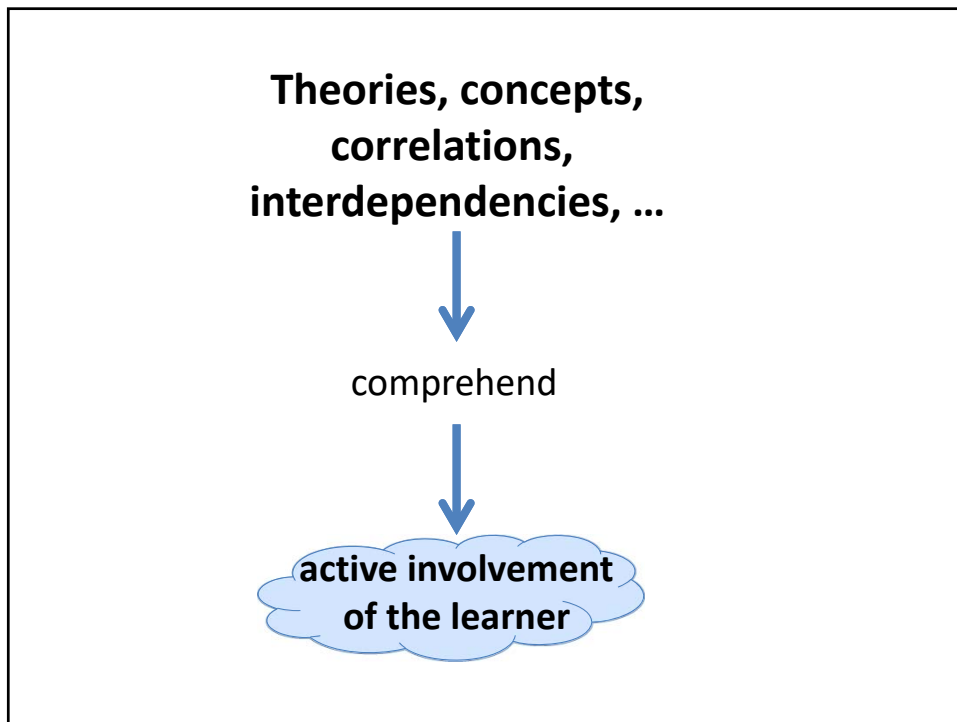
Memorise,
learn by heart,
repeat, repeat, repeat



**Theories, concepts,
correlations,
interdependencies, ...**



comprehend



Less teaching
more (self-) learning !

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Solutions

- How can we **involve** the learners more actively?
- How can we make them read instead of **copy**?
- How can we promote **learning** instead of teaching?

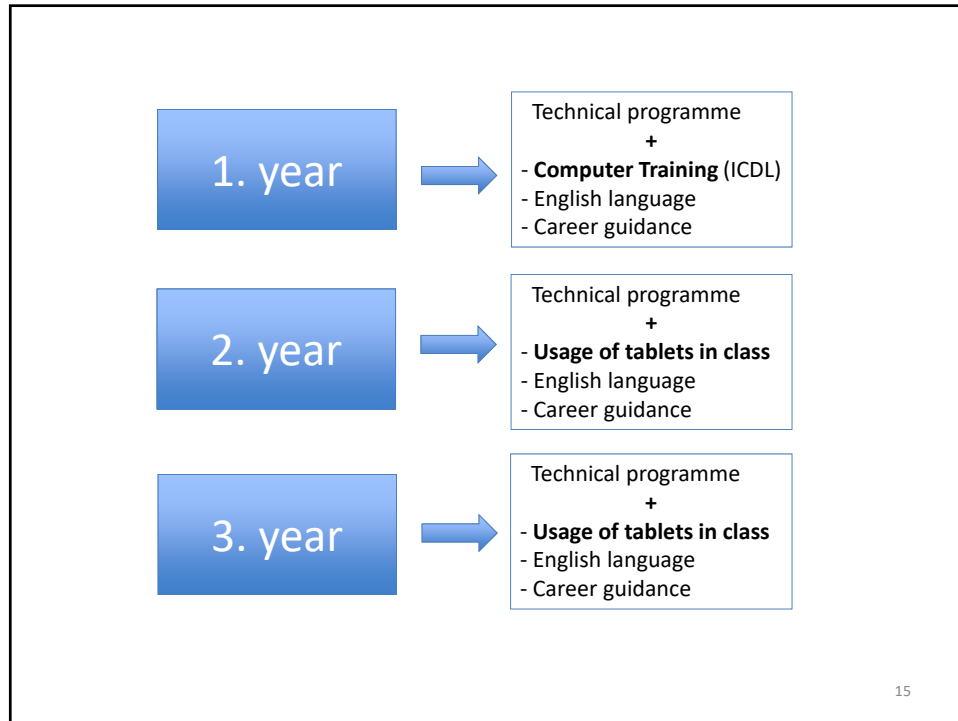
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... but how?

"Learning by **head**, **hand** and **heart** leads to holistic (sustainable) learning"

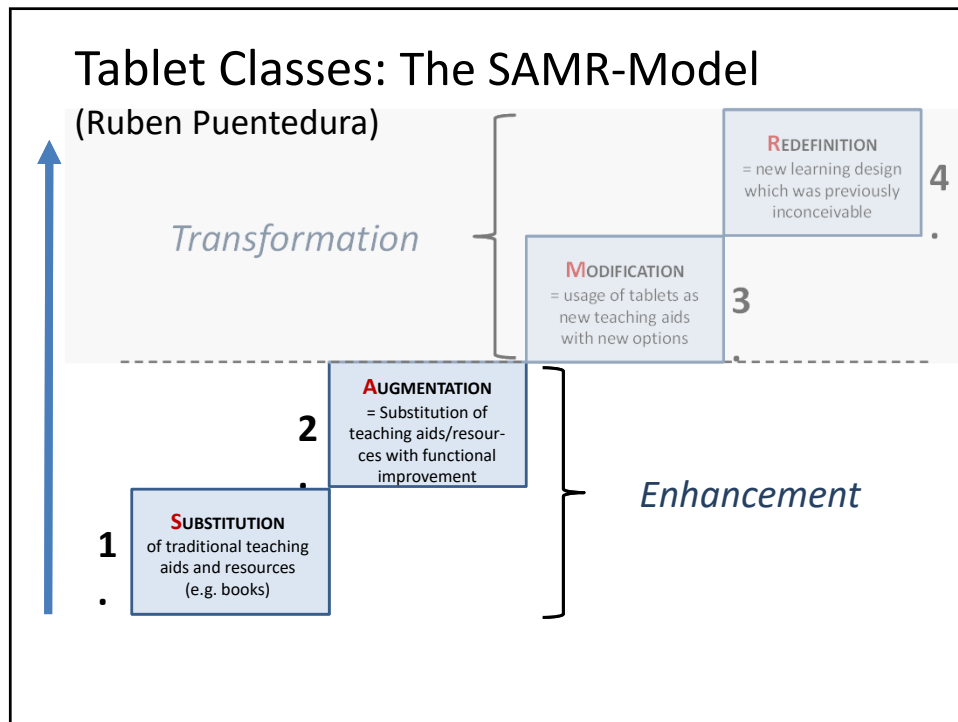
Johann Heinrich Pestalozzi
(1746 – 1827)

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Integrated E-Learning

- E-Learning integrated into classroom activities in order to facilitate the students' **self-learning competencies**
- Learning resources accessible online
- A Learning Management System (LMS)
- WiFi everywhere in the building
- Usage of tablet computers



... and what is needed?

- Change of the learning culture:
less teaching – more learning
- Students need to take more responsibility for their own learning
- We need to transform curricula
- We need different examinations
- We need to “activate” the students:
task-orientation



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