

Strengthening Forces by Cooperation

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now you know

Goal

- **Goal:** quality assurance in education by evaluation
- **Focus:** Evaluation of output by fair and good testing
- **Required:** sufficient trained and experienced staff



now you know

Requirements for evaluation

- Framework for evaluation: role of outcomes
- Student outcomes
- Comparability of outcomes
- Involvement of **all** stakeholders
Students – Schools – Society (Government)
- => Standardized tests => Cito's experience
Not only at the end of education
but also during!



now you know

Observations

- Formal education on educational assessment is limited
- Almost all training is on-the-job training
- Need to extend experiences
- Exchange of expertise
- Need for cooperation to strengthening forces

Professional development

- Structure and position of Cito
- Organogram + number employees
 - 600 in Cito; few in other countries
 - need to concentrate assessment staff?
- Need for sufficient professionals per field of expertise: Content, Psychometrics, IT



now you know

Different Fields

1. Content
2. Psychometrics
3. Information Technology

1 Content

- Basis for all educational measurement:
valid items
- Principles of item development
 - Measuring higher order skills by MC
 - Measuring ability (not knowledge)
- Evidence based designs for item construction
- New developments; innovative item formats
- Development of Student Monitoring systems
- Development of Diagnostic tests

2 Psychometrics

- Development of designs
- Evaluation of quality of items:
use of CTT and IRT
- Test assembly: linear => adaptive
- Development in Reporting
 - more diagnostics
 - using performance standards



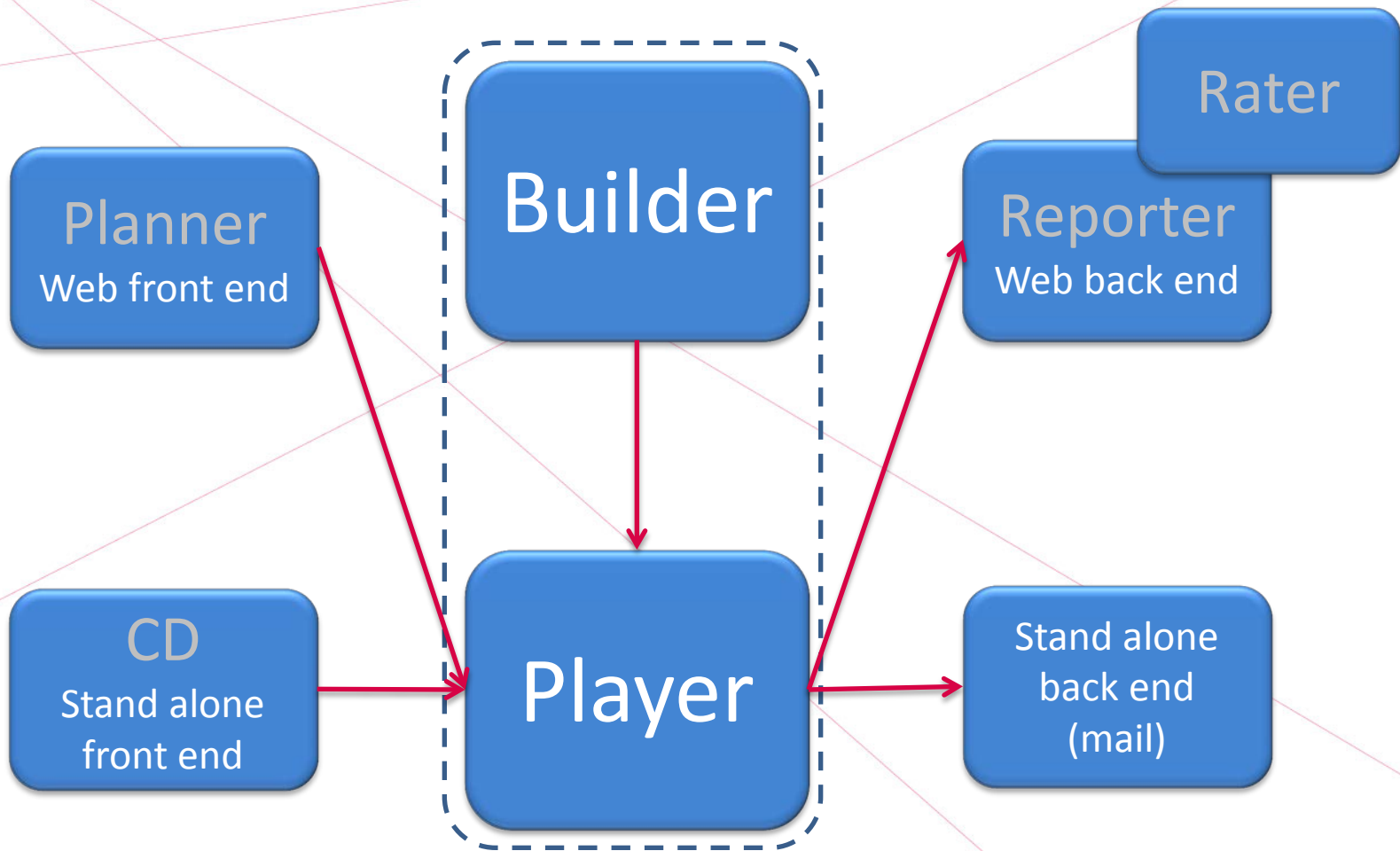
now you know

3 IT

- IT plays a prominent role
- Storage of items (itembanking)
- Delivery of tests CBT
 - new formats
 - automatic scoreble
 - flexible
- For dedicated purposes.
- High costs => need for cooperation?



now you know



Administrative programs (e.g. Pupil Monitoring System)

Different Fields repeated

1. Content
2. Psychometrics
3. Information Technology



now you know