e-assessment community

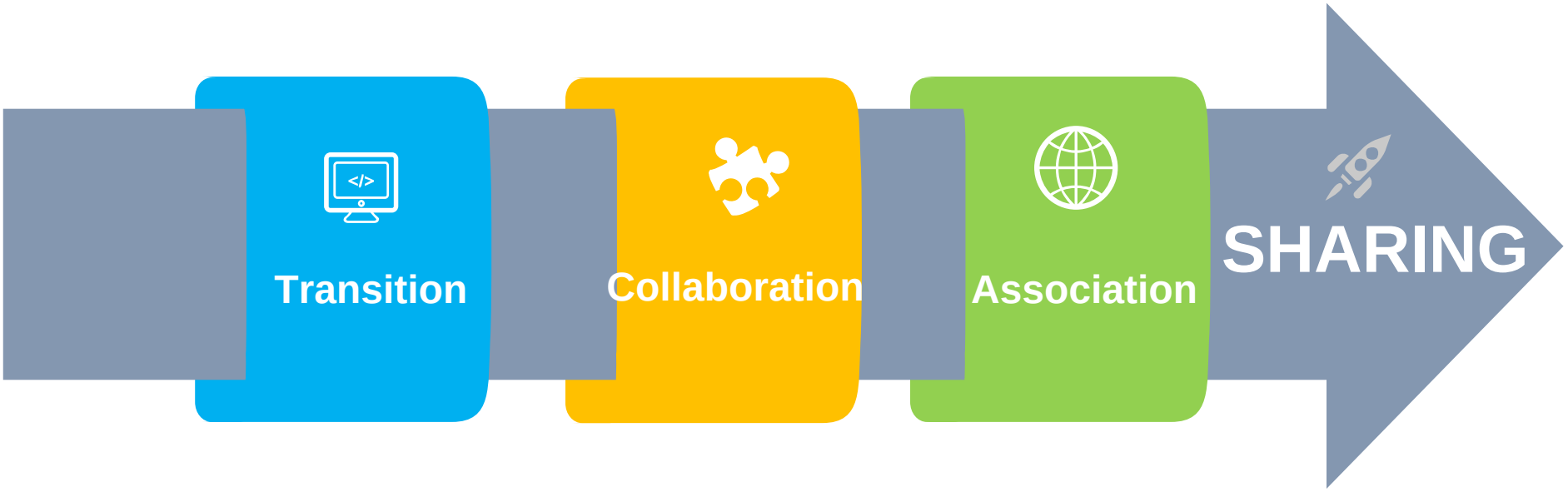
FLIP+ a collaborative framework for e-assessment

2nd international event
Rome
06th – 07th June 2019

Objectives

- Context for collaboration
- Sharing knowledge and experience
- Sharing technology development
- Sharing content

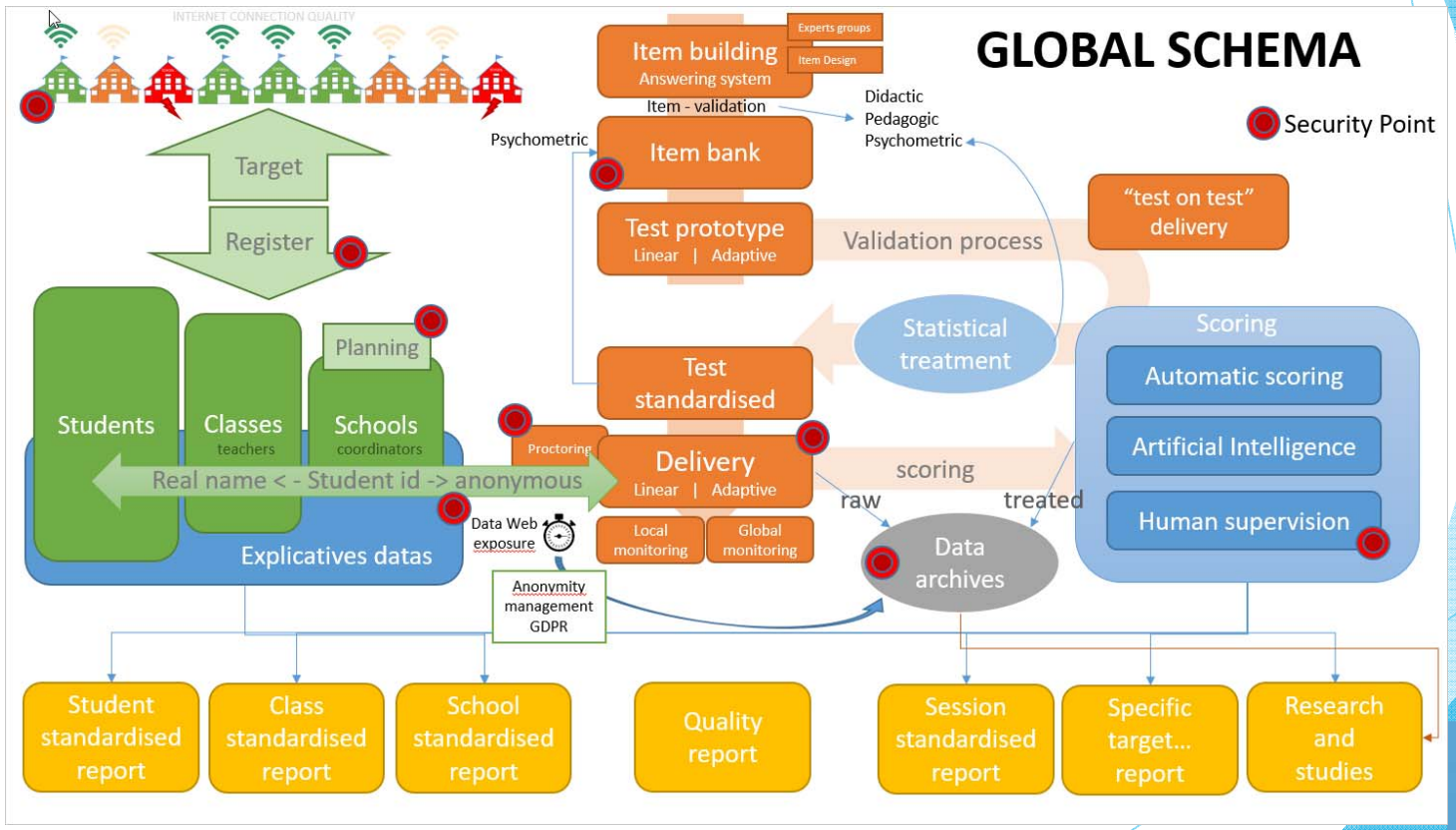
The FLIP+ journey



Transition to e-assessment

- costs
- technology (choice of platform, delivery mode, equipment)
  - robustness, open-source, technology standards, interoperability
- content (item banks, construction design)
- test administration (operations)
- security (legal aspects, GDPR, …)

Ideal (full integrated) online assessment



Educational Research Centre
Foras Taighde ar Oideachas

Sharing knowledge and experience

- new experiences in e-assessment
- new research (User eXperience)
- professional development
- use of data & analysis to enrich teaching and learning

What experiences and in what field of interest would you like to share?

Sharing technology development

- all technological development bears an underlying cost
- benefits through pooling of resources
- two principles of open-source and interoperability
  - sharing source code of technological solutions (not item content itself, which is subject to access rights) of the platform and the technological developments
  - content may be used on, and exported to, different platforms without having to depend on a particular provider

Sharing technology development

- the technology-enhanced items and student tools
- the building of sharing systems
- enhancing the delivery of the e-assessment
- creating a more integrated system

What are the technological needs and priorities in your own contexts?

FLIP+ Requirements List

TECHNOLOGY-ENHANCED ITEMS « 21st century skills » Math and science tools	**SHARING SYSTEMS** Items, plugins, ideas, technical experience
DELIVERY Offline/app solution, accessibility, UX, other functionalities	**TOOLS/INTEGRATION** Marking, reporting, data analytics…

Sharing technology development

A.	**TECHNOLOGY ENHANCED ITEMS**
A.1	**21st century skills assessment**
A.1.1	Chat simulator PCI
A.1.2	Computational thinking tool (SNAP)
A.1.3	File explorer PCI
A.1.4	Text editor PCI
A.1.5	Collaborative pad
A.1.6	Mind mapping
A.1.7	Scratch pad (student tool)
A.2	**Math and science assessment**
A.2.1	Math and science PCI
A.2.2	Geogebra item types (PCI)
A.2.3	Geogebra student tools (ex. calculator)
A.2.4	Spreadsheet PCI

Sharing technology development

B.	**SHARING SYSTEMS**
B.1	**Sharing ideas and concepts**
B.2	**Sharing items (item banking)**
B.3	**Sharing plugins, extensions**
B.3.1	FLIP+ Git?
B.4	**Sharing technical experience**
B.4.1	FLIP+ dev Rocket.Chat
B.4.2	FLIP+ dev Jira instance

Sharing technology development

C.	**DELIVERY**
C.1	**Offline solution**
C.1.1	Item caching
C.1.2	Local server support
C.1.3	Offline device
C.1.4	Optimised sync mechanism
C.2	**App solution**
C.2.1	Guest access
C.2.2	Optimised sync mechanism

C.3	**Accessibility tools**
C.3.1	Tools related to colour-blindness
C.3.2	Tools related to dyslexia
C.3.3	Zoom
C.4	**UX**
C.4.1	Improved test assembly
C.4.2	UX for staged adaptive
C.4.3	Improved item workflow
C.4.4	Simplified interface for teachers
C.5	**Other functionalities**

Sharing technology development

D.	TOOLS/INTEGRATION
D.1	**Marking tools**
D.1.1	Marking item response
D.1.2	Marking logistics
D.1.3	External marking integration (API)
D.2	**Reporting tools**
D.2.1	External reporting tool integration
D.3	**Data analytics tools**
D.3.1	Caliper
D.3.2	xAPI

Sharing content

- subjects, grade levels
- access (public, embargo)
- purpose (national assessment, model items released, model items under creation)
- history of use, format, scoring remarks
- other psychometric properties
- documentation

Sharing content: towards an item-bank

- share item content according to specific copyright, agreements and confidentiality regulations.
- language assessment or for technology-enhanced items
- portability to facilitate the item (bank) exchange
- items could be referenced in a catalogue
- enable the pooling and optimisation of (economic) efforts for the creation and use of the item banks

Sharing content: towards an item-bank

- characteristics of item storage, functions
- collaborative space
- classification of items by subjects, domains, skills, grade levels, access rights, categories of use, format, psychometric properties, metadata, stimulus, history of item usage, revision history

What is our vision for sharing the content in FLIP+ / what is our objective for sharing?

What content? How do we manage?

Discussion

What experiences and in what field of interest would you like to share?

What are the technological needs and priorities in your own contexts share?

What is our vision for sharing the content in FLIP+ / what is our objective for sharing?

What content? How do we manage?

LET'S START SHARING!

FRANCE	DEPP (Office for Student Assessment)
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FLiP e-assessment community

THANK YOU!

https://flip-plus.org/