



Evidence-based Adaptive Learning

"Helping teachers help every student master K-12 core knowledge"

EFIA 2022

« IA pour l'enseignement »







"If I had asked people what they wanted, they would have said faster horses."

- Henry Ford

XX^e Education massification BUT...

Youth unemplyment 25% without a diploma France, EEC study

Of 15 year old students think that **75%** 2/5 > 1/2 PISA 2019 - Pays de l'OCDE Of students experience Literacy and 60% Numeracy gaps

Every 26 seconds a student 26' drops out of school (US)

UNESCO











CONFÉRENCE DE CONSENSUS

DIFFÉRENCIATION PÉDAGOGIQUE

COMMENT ADAPTER L'ENSEIGNEMENT POUR LA RÉUSSITE DE TOUS LES ÉLÈVES ?

RECOMMANDATIONS DU JURY

Mars 2017

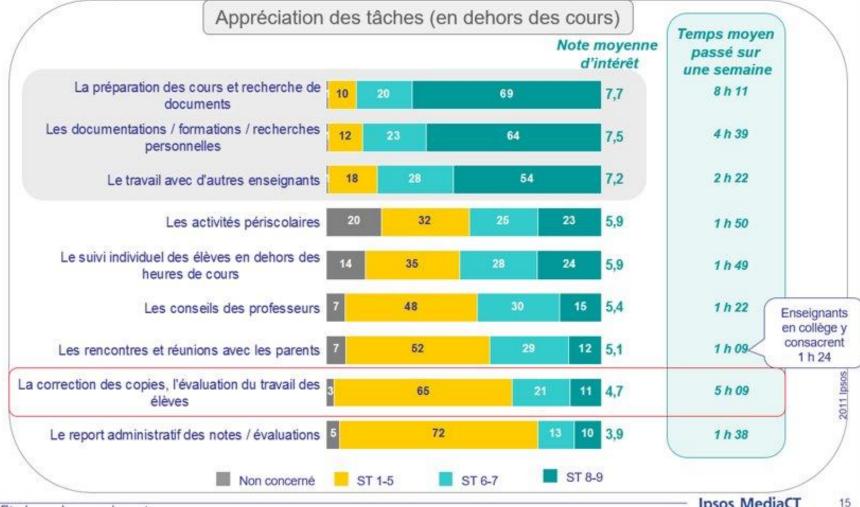




Les enseignants passent du temps sur les tâches qu'ils apprécient, exception faite pour la correction des copies

B1. Voici différentes activités que vous pouvez être amené à faire dans le cadre de votre métier d'enseignant, en dehors d'assurer les cours. Pour chacune d'elles, veuillez indiquer votre niveau d'intérêt en utilisant une échelle de 1 à 9. 9 signifie qu'il s'agit d'une activité que vous appréciez énormément de faire et 1 que vous n'appréciez pas du tout de faire.

B2. Généralement, combien de temps consacrez-vous en moyenne à chacune des tâches suivantes sur une semaine? Base: ensemble (n=670) - En %

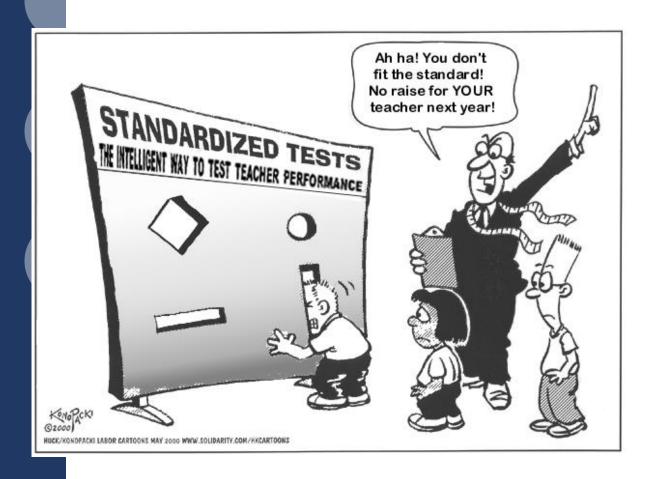






Al in Education is not waiting for Europe











3 Pillars for Evidence-Based Learning



and



and



Cognitive Science













Learning interfaces & UX









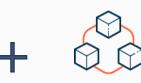


Research and Evidence are in our DNA

Our adaptive learning technology is evidence-based, drawing on research across 3 fields:







Digital Use in Education Research

"Research broadens the understanding we have of knowledge acquisition and pinpoints blocks or learning gaps to help teachers ensure student core knowledge mastery."







Pascal Amsili



Kristen Weatherby



Jean-Marc Labat







Andre Knops



Daniel Andler



Pierre-Yves Oudever

Strong Research Partnerships











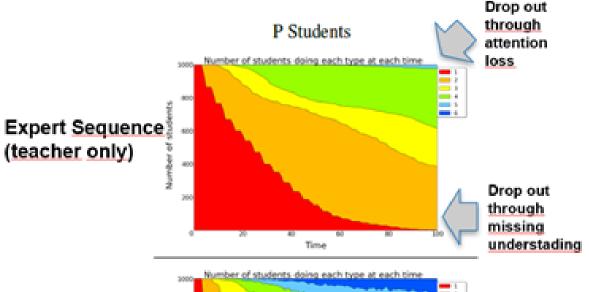


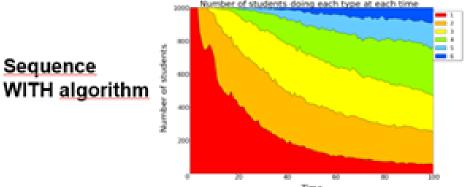
Al against drop out

Efficiency of the multi-armed bandit algorithm through personnalization of exercices

Multi-Armed Bandits for Intelligent Tutoring Systems

Benjamin Clement benjamin.clement@inria.fr, Pierre-Yves Oudeyer pierre-yves.oudeyer@inria.fr, Didier Roy didier.roy@inria.fr, Manuel Lopes manuel.lopes@inria.fr http://flowers.inria.fr Inria, Bordeaux, France

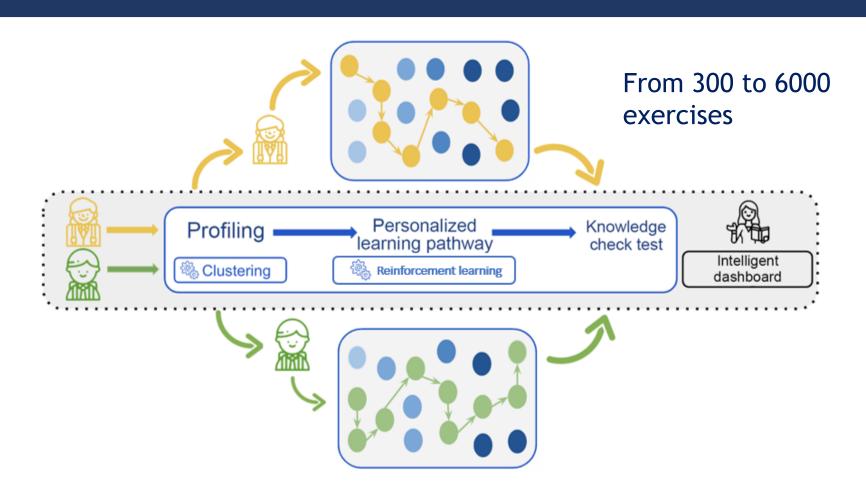




Journal of Educational Data Mining,



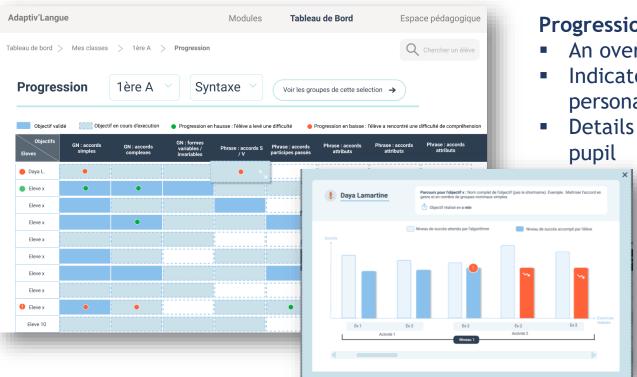
Our product: Artificial Intelligence and Personalisation





CAMPUS IA

Intelligent dashboards to support differentiation

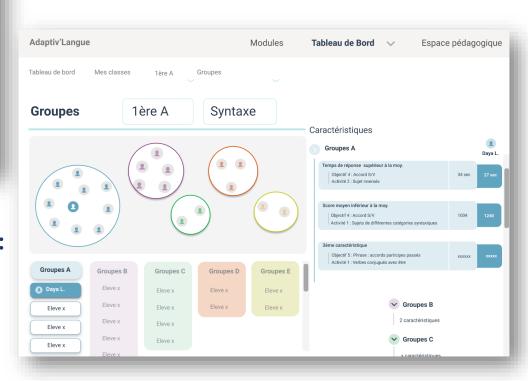


Groups of students with similar profiles:

- A view of the class groups
- **Groups characteristics**
- Individual student details within the group

Progression with:

- An overview of progress
- Indicators of progress and difficulties of personalised pathways
- Details of progress and difficulties per





Planned Catalogue of 5 Fundamental Domains

Adaptiv'Math



- Number Sense
- Fractions & Proportions
- 3. Arithmetic Problem Solving
- Problem Solving (quantities and
- Space Orientation and Geometry 9000 exercises
- 6. Figures and solids
- 7. Algebra
- 8. Algorithms/coding









Adaptiv'Langue



- Syntax (Level 1&2)
- Spelling (Level 1&2)
- Lexicon (Level 1&2)
- Verb (Level 1&2)
- Logic
- Coherence of written and oral text

6000 exercises

- 7. Reading fluency
- 8. Production of texts
- 9. Pragmatic/Context











Adaptiv'Latin Adaptiv'English...



- The case system
- Vocabulary of declinable words
- Vocabulary of verbs 4.
- Sentence structures
- Understanding without translating

3000 exercises

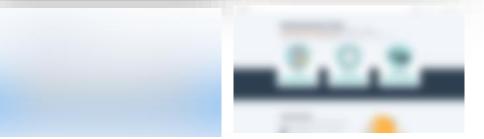
6. Approach to speaking







Adaptiv'Geo Adaptiv'History



Coming Soon



Delivery of 19 modules covering 3 domains











Continuous pilotes & experimentations with teachers



Adaptiv'Langue 2020-2021

Innov'up Expérimentation Intelligence Artificielle (IA) & Education













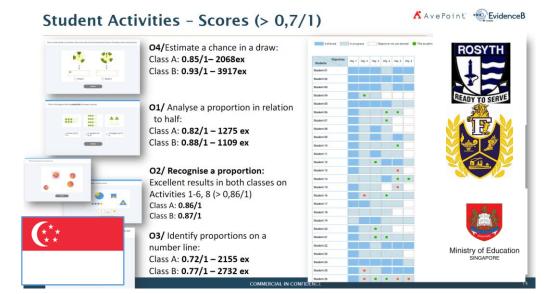






Erasmus+

Artificial Intelligence Methodology for education



ELLA, lauréat du projet EDLAB

Le projet EdLab : un dispositif d'accompagnement à l'expérimentation d'innovation numérique pour l'éducation et la formation Projet initié par le Conseil Régional Nouvelle-Aquitaine, Grand Poitiers et sa Technopole, le SPN et Réseau Canopé







EvidenceB team

Expertise & Diversity

Deep expertise and solid track records in international education and Edtech sectors



THIERRY DE VULPILLIÈRES
CEO et co-founder
15 years in educational
publishing and 12 years at
Microsoft (director of
Educational Partnerships,
International Program).



CATHERINE DE VULPILLIÈRES
Chief Innovation Officer
and Co-founder
ENS, former literature teacher in
CPGE khâgne, member of the
modern literature agregation jury.



DIDIER PLASSE
Chief Strategic Officer and Co-founder
Co-founder and President of Immostreet,
Kidscode and Solarneo. Other experiences
include: OC&C Strategy Consultants,
management positions in the US, UK, Spain
and Argentina.







PHILIPPE MERO
VP Business Development
and Strategic Partnerships
20 years of experience in
education and digital education
consulting.



ERIC GROISE
CTO
20 years of experience in
Product, Architecture, Software
development



FATIMA HARRAK
Data Scientist
Al Research Engineer in
Learning Analytics, Data Mining
for Education,
MOCAH, LiP6, Sorbonne
University PHD



JILL CAIRNS
CMO – Marketing Director
15 years in international
educational publishing at Hachette
Livre France / International.



EvidenceB: research transfer

- Deployment in K12 in diversity of subjects (literacy, numeracy, science...) & age
 + happy to share data for various research projects
- 2. Ressources design with research Labs and researchers => ability to answer National, European, International call for proposal (BRNE, P2IA, Erasmus, Singapore EDB...)
- Open to pilot & experimention => P2IA / Paul Valery AI campus / Singapore schools / Lycées Académie de Poitiers...
 lesson learned : AI transparency against black box
- 4. Evidence based on 2 levels => transfer & post AB test... (Geneve University & Adaptiv'math)
- 5. EvidenceB open positions for internship, apprentice, Cifre, postdoc, CDI...





evidenceB.com







