

Multimodal Mobile Learning (MML)

Using Technology to Enhance and Promote Learning

École de technologie supérieure, Montréal, Canada (ÉTS)

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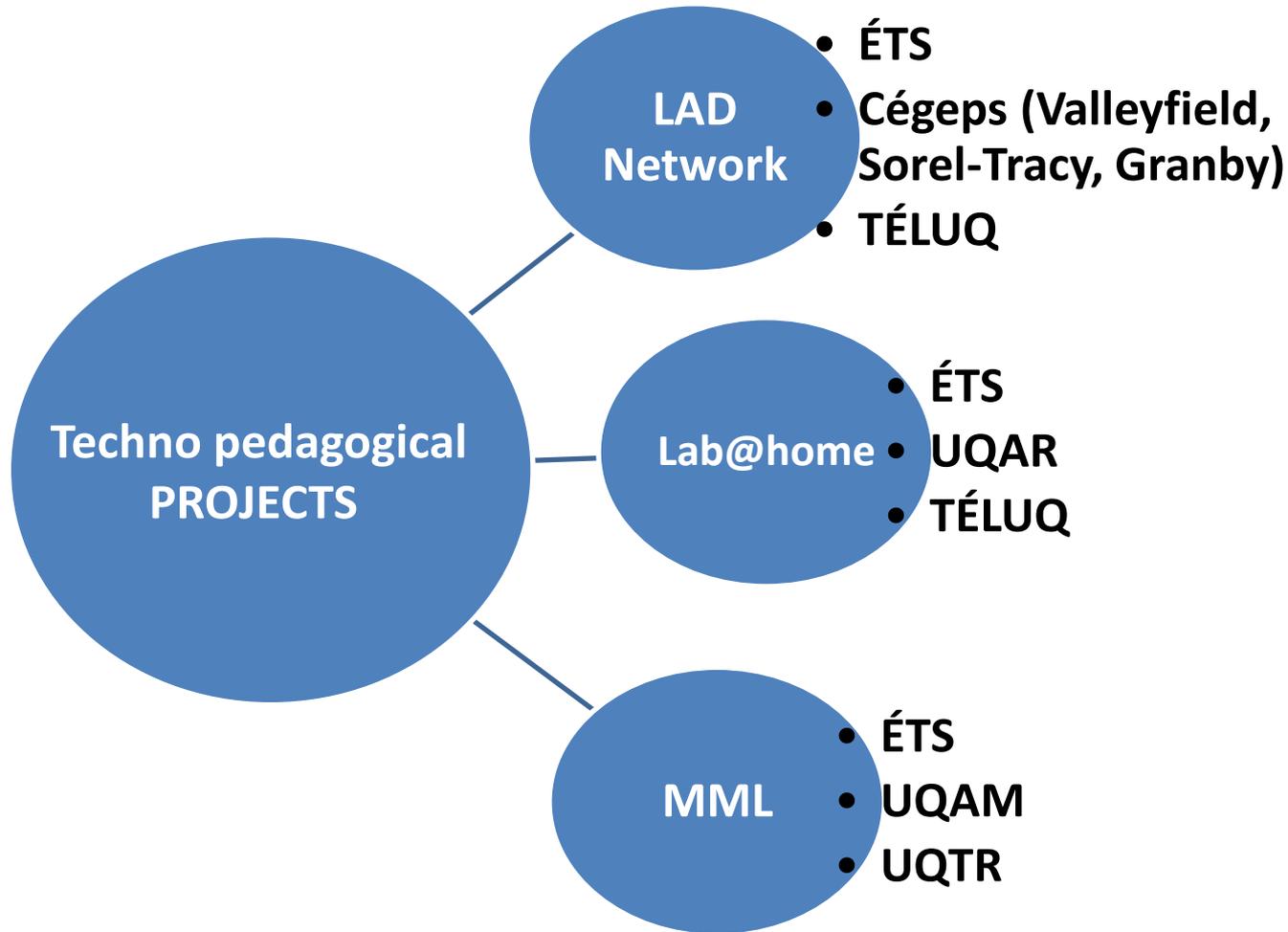
Université du Québec à Montréal, Montréal, Canada (UQAM)

Catherine Mounier, Daniel Lemieux

Université du Québec à Trois-Rivières (UQTR)

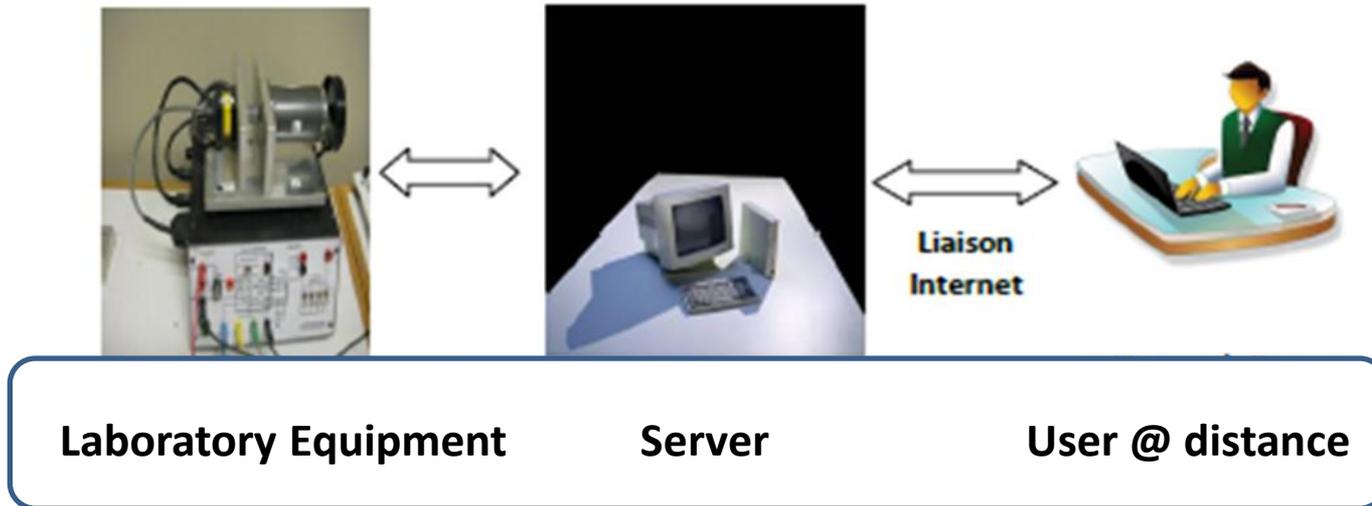
Adel Dahmane

Introduction – Team experience

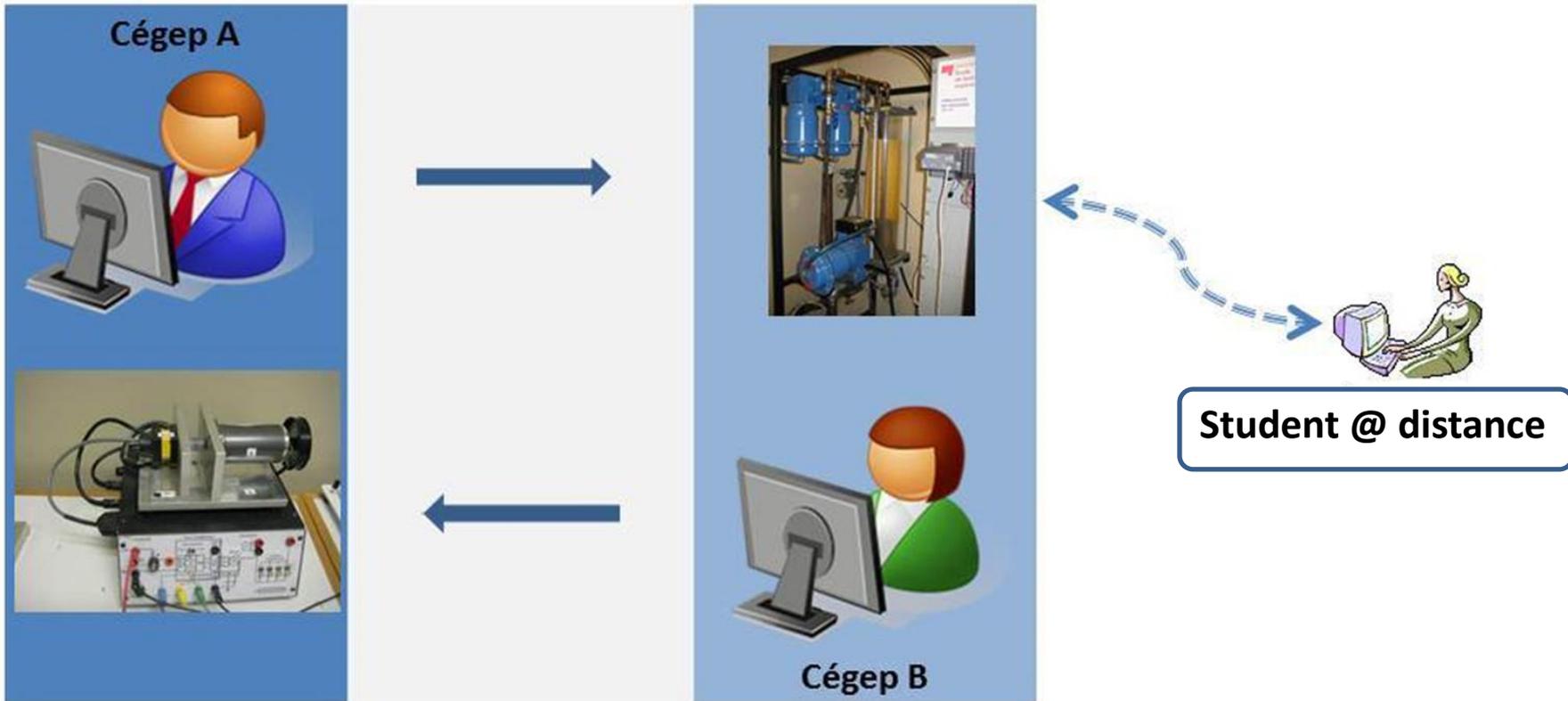


Laboratory at distance (LAD)

Principle



LAD Network between CEGEP (Valleyfield, Sorel-Tracy, Granby)



Lab@home

Conventional laboratory vs Lab@home

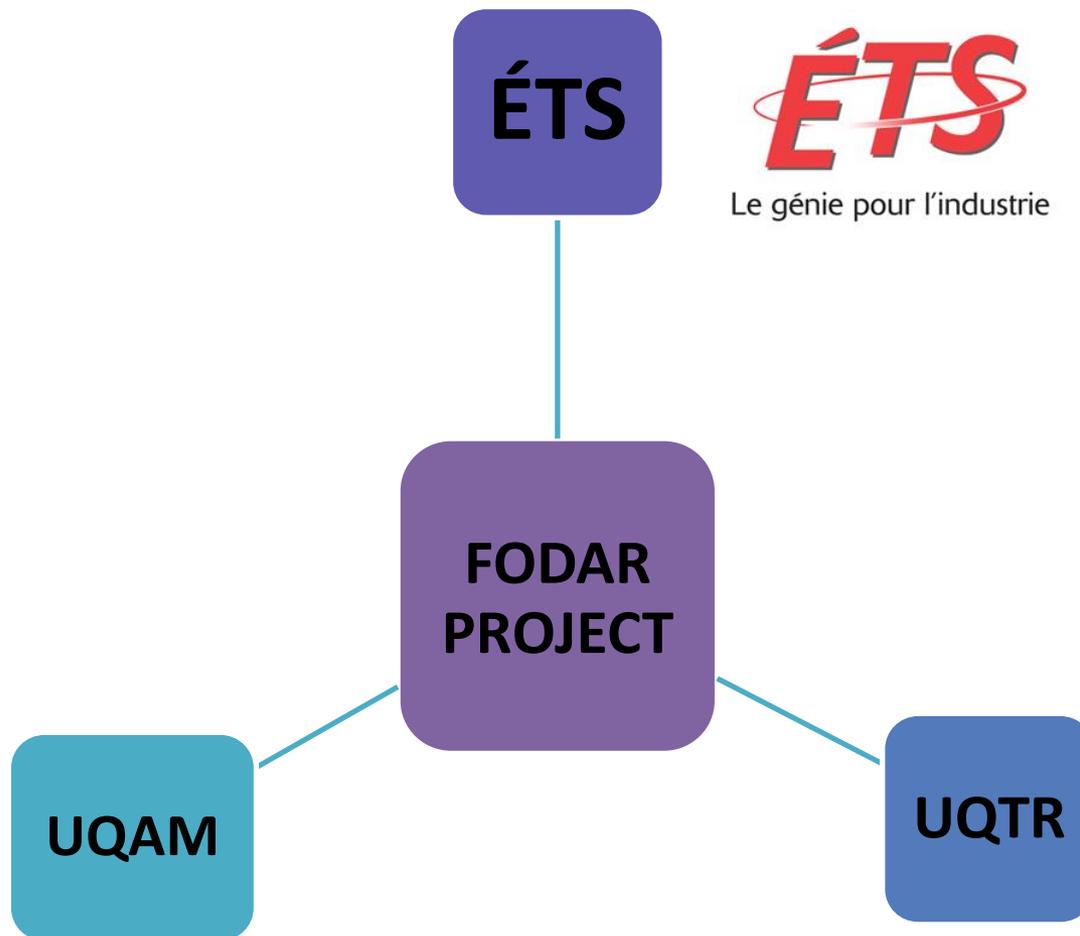


Miniaturized kit and personal computer

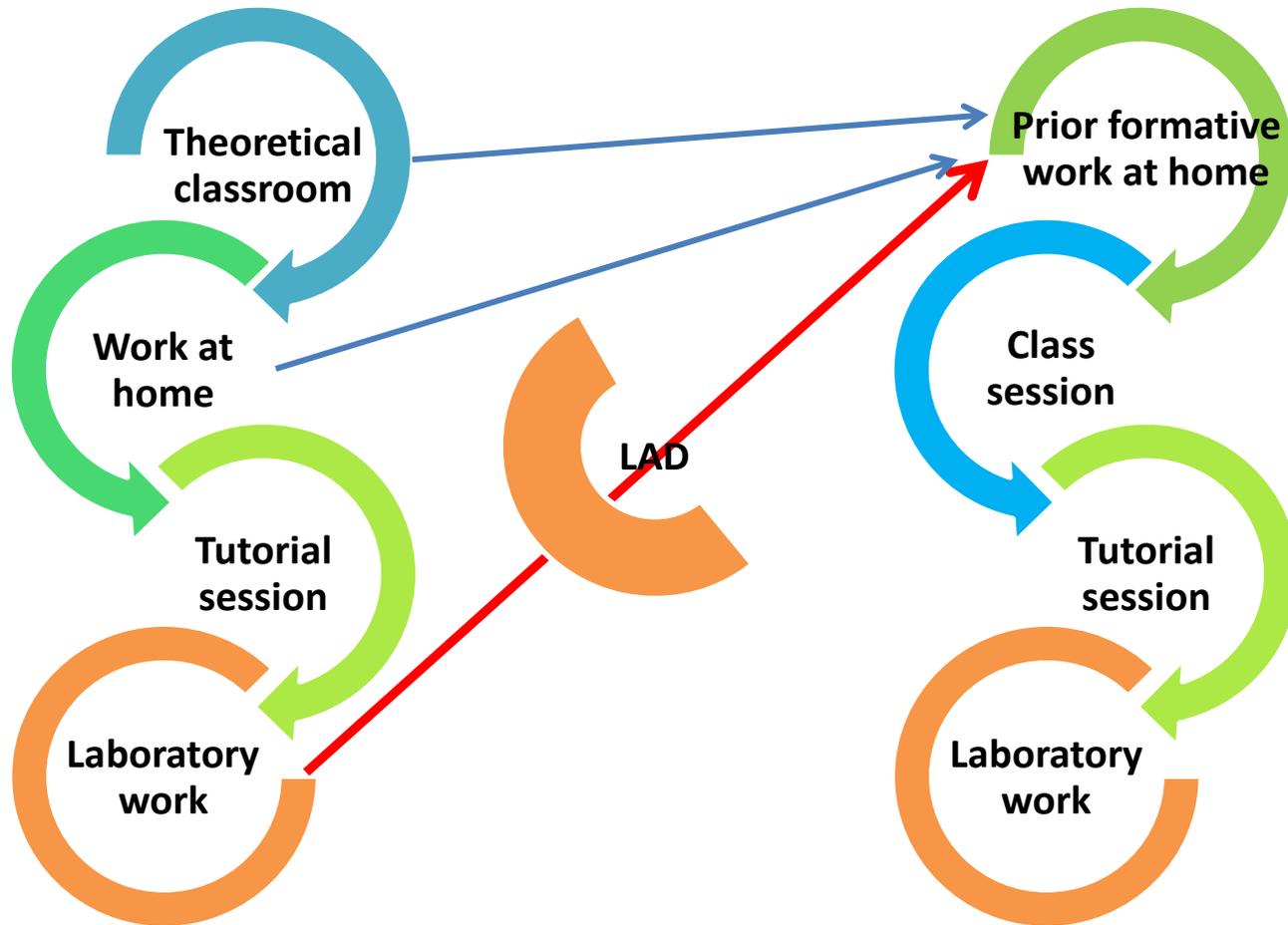


Kit

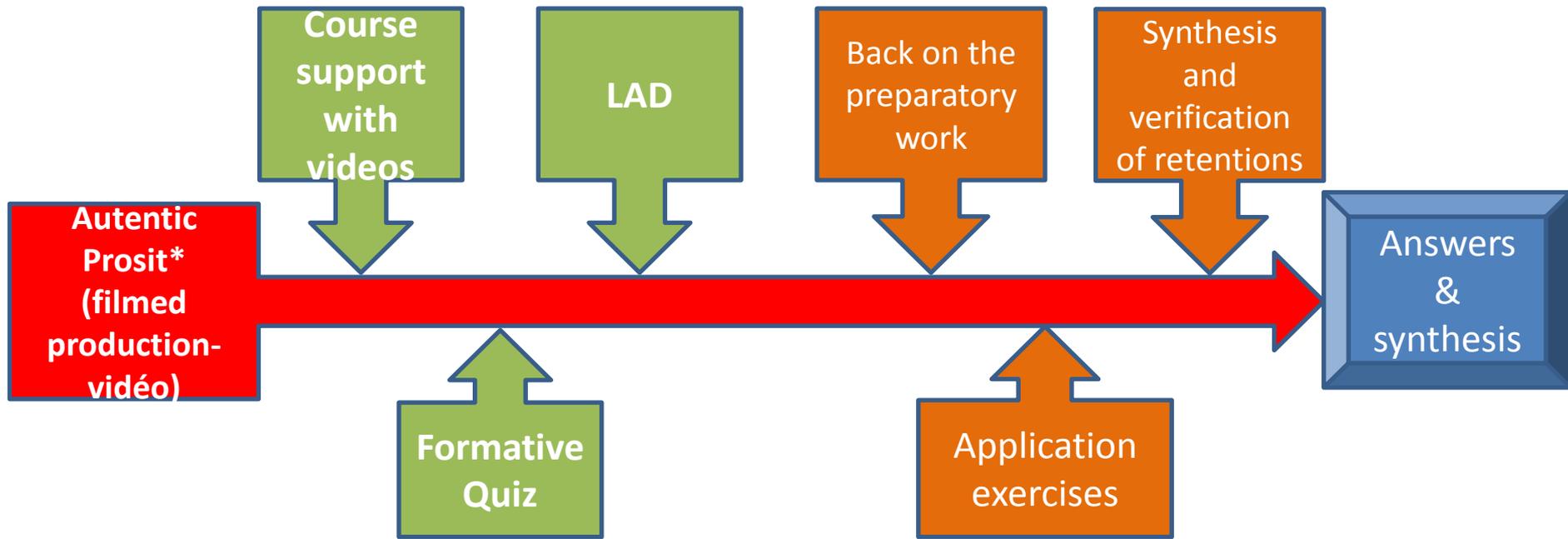
Multimodale mobile LEARNING (MML)



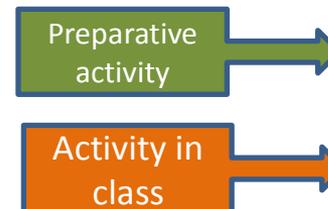
Flipped Classroom (FODAR project) vs Conventional Classroom



ETS AND UQTR MODEL



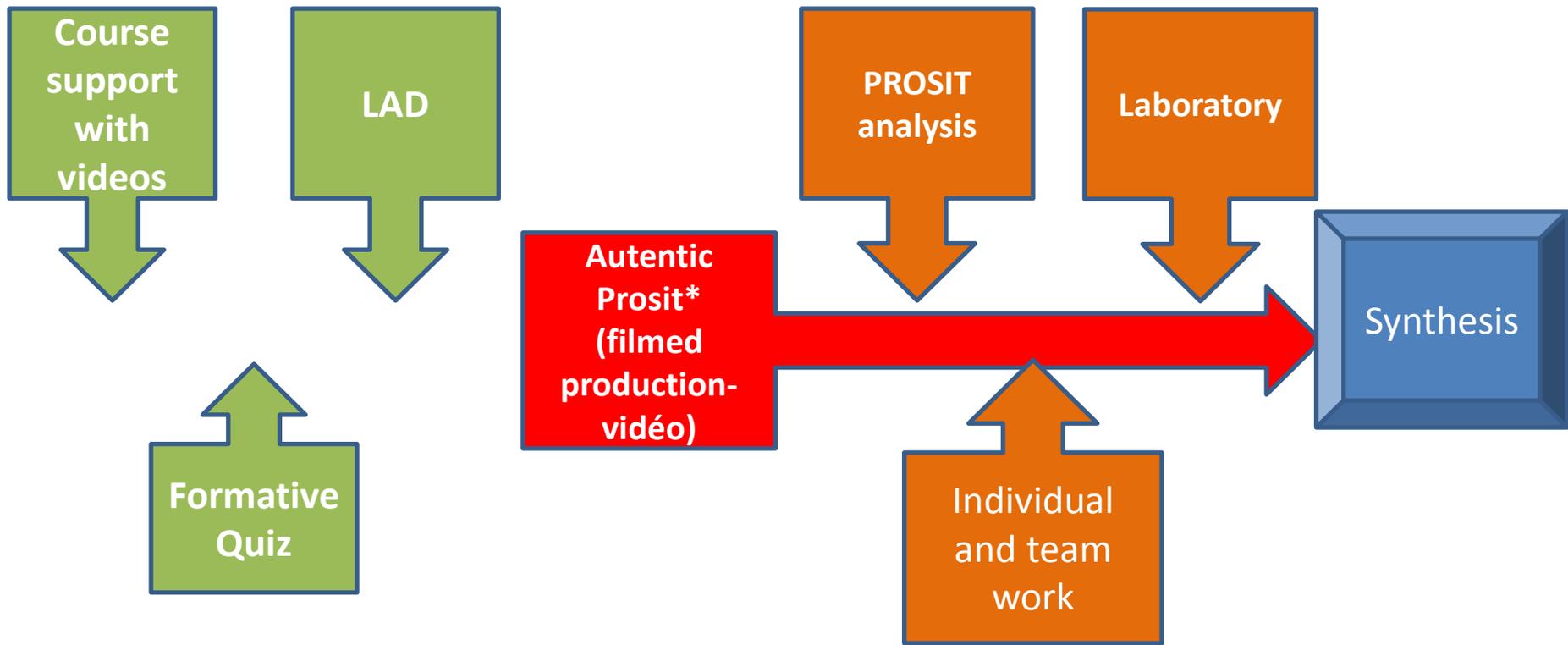
*Prosit = Problem situation



MML STEPS

https://www.youtube.com/watch?feature=player_detailpage&v=-AFC316Uns4#t=31

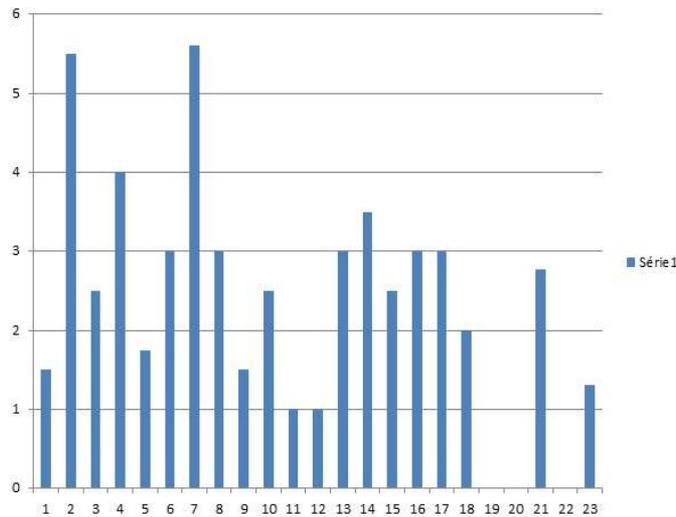
UQAM MODEL - PBL



*Prosit = Problem situation

Some results and surveys

Time spent on prior work at home



Moyenne = 2h45
Écart-type = 1h20

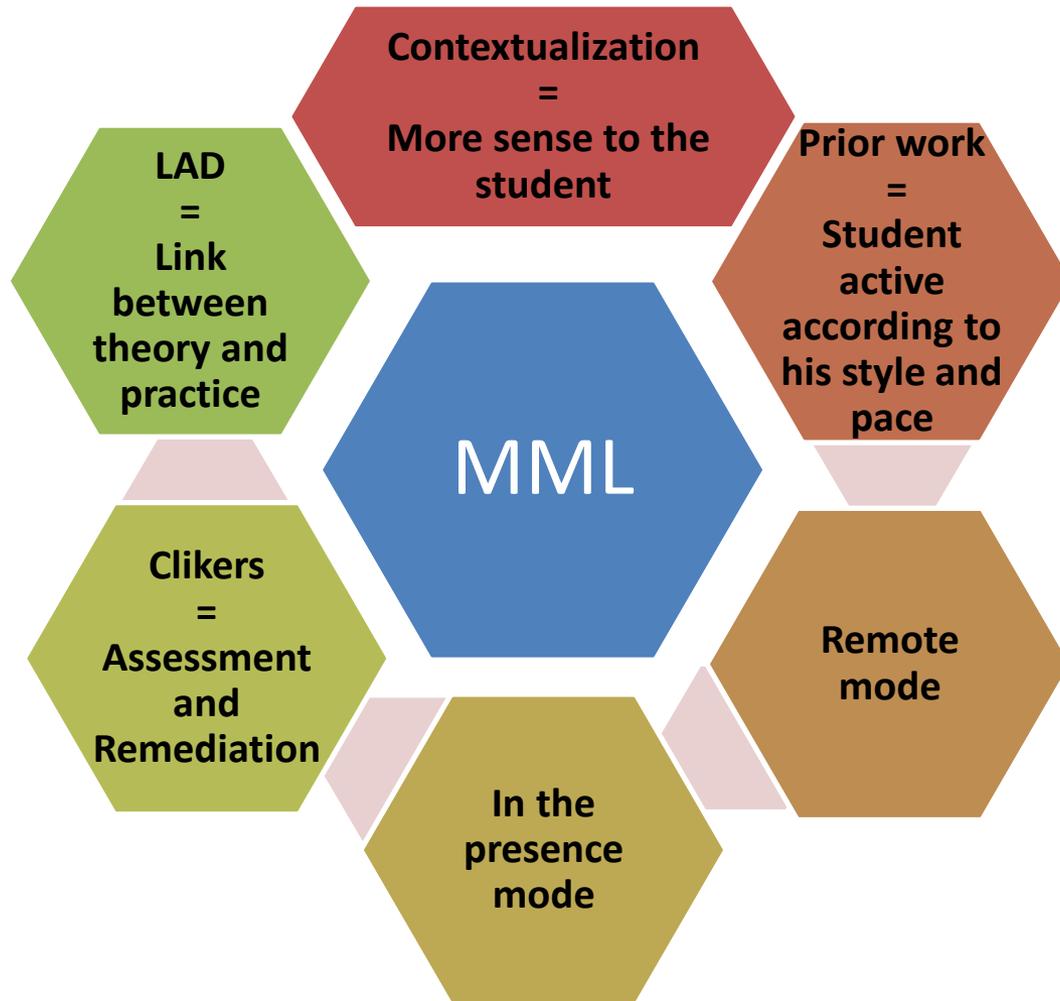
UQTR:

- High student motivation
- Learning according to student rhythm

ÉTS:

- 75% of students appreciate the problem contextualization
- 75% of students appreciate the use of clicker (TélévotEUR)
- 40% of students estimate that the time spent on prior work is excessive

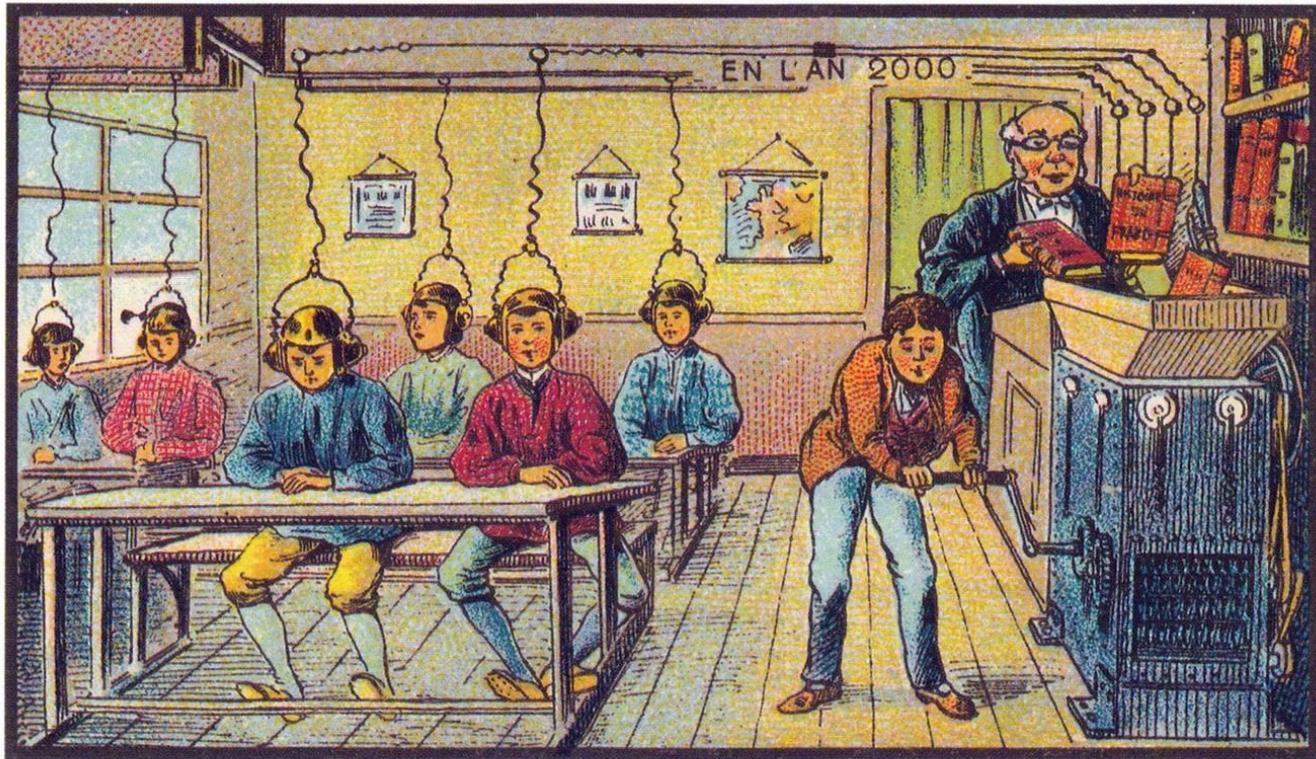
Conclusion



Conclusion

- **New role of the teacher**
- **Techno pedagogy**
- **Skills Development**
- **Hybrid laboratory**
- **Paradigm → Flipped class → MML**
- **ICT → Watch → Put the record straight**

Thanks for your attention



At School

Villemard 1910 - En L'An 2000 - At School