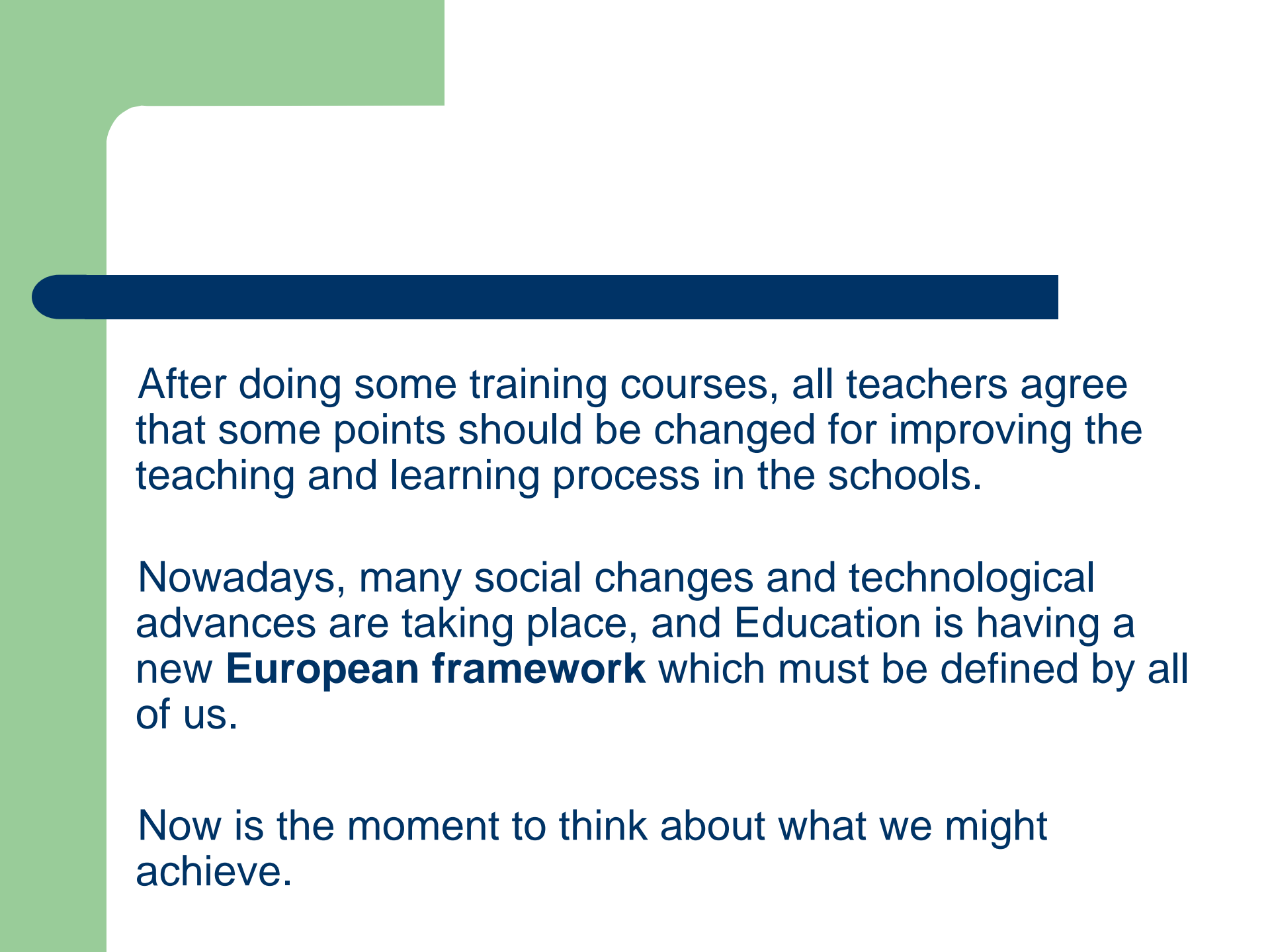


The XXI Century School  
from the Mathematics and Science  
Consultancy  
point of view





After doing some training courses, all teachers agree that some points should be changed for improving the teaching and learning process in the schools.

Nowadays, many social changes and technological advances are taking place, and Education is having a new **European framework** which must be defined by all of us.

Now is the moment to think about what we might achieve.

## What we might achieve

For achieving the best development of the classes, the best would be to have '**subject's classrooms**' (laboratory for Physics and Chemistry, a workshop for Science, Biology and Geology and workshop-classroom for Mathematics), and in each of them:

- an interactive blackboard
- some computers with Internet access
- tables for working in small groups
- suitable bibliography,
- and the necessary material for developing the classes

## What we might achieve

In this classrooms it would be possible to make **handling practices** after looking for information on the Internet and books, and finally to solve some questions or problems about the topic in a collaborative way, **integrating all the experiences** in a global knowledge.

# What we might achieve

- It would be possible to make a handling practice  
*(necessary for the competence of interacting with the physical world)*
- To look for information on Internet and books  
*(reading and digital competence)*
- To solve questions or problems related with the topic through collaborative work  
*(Mathematical, social and civic competence, personal initiative)*
- To make short researches and to present them to the class  
*(learn to learn competence, personal initiative, linguistic communication)*

## What we might achieve

- The School needs an organization for **optimizing** people's and resources performance.
- To set up timetables for **taking profit from the classrooms** and making possible for the teachers to have meetings (depending on the grade, subject...) and training.

## What we might achieve

- Training must stop being voluntary and anarchic (each teacher trains him/herself in the topics he/she considers more suitable, without a unified criteria which manage their training).
- After the working day and a long travel, a person is not in the best conditions for receiving training.
- Training should be more organized, in a rational way, thinking on the needs of the educational community.

## What we might achieve

- One possibility might be to leave three academic periods during each teacher's timetable, for being used for having meetings or training, alternately.
- This way, a teacher might attend to some training sessions (even outside the school), and then he/she would practice in the classroom the techniques learned, and he/she would transmit them to his/her colleagues in the next meetings.



## What we might achieve

- This way, one teacher's training would have effect in all the staff
- Training would lose its current individualism
- The school would be considered as a whole