

## GOAL

Promoting specific tooling and languages to young innovators, students and instructors for the IoT market

## Challenge

The main challenge in developing new Training Tools for IoT market is to target a new generation of skillful and technology enriched young innovators that will possess the necessary skills and competencies to turn innovative ideas into disruptive products and services and thus excel in their professional life by thinking differently and showing their creativeness.

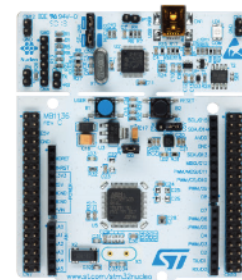
Arrowhead Tools will create an educational ecosystem with high potential to enrich currently well known approaches. IoT is a technology concept that is transforming and redefining virtually all markets and industries in fundamental ways. It is also at the basis of the upcoming Industry 4.0 evolution. Since IoT is a relatively new set of technologies, to be able to understand its concepts and its market potential requires

21st-century learning skills. In many cases, new technologies are simply reinforcing old ways of learning which is ineffective in a society where today's school students will probably end up at jobs that have not been invented yet. In addition to this, very often digital technologies are introduced in education according to a narrow perception as being suitable only for talented youth or only for Science, Technology, Engineering, Maths (STEM)-oriented majors. Current societal developments call for a shift to the recognition that fluency with digital technologies is no longer just a vocational skill or a way to train future STEM workers, but knowledge and skills valuable for every citizen. Voices in education community call for a democratization of the access to 21st century technologies in education for all.

Concept

Creating

Prototyping



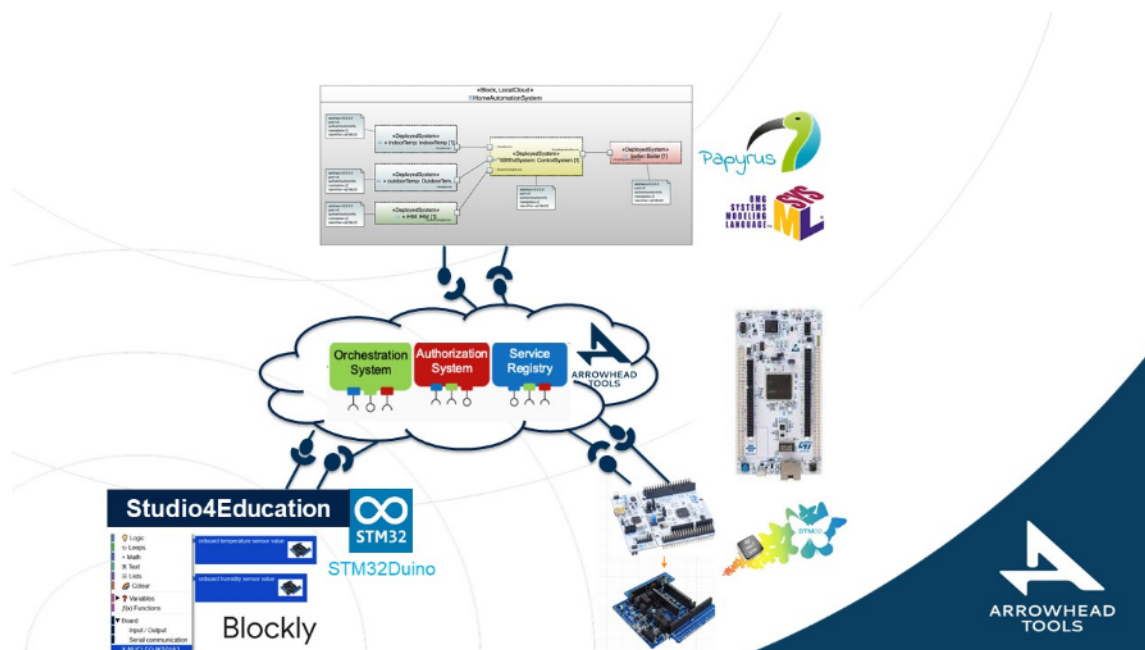
## Engineering Phases



## Results

With Studio4Education, that combines the educational language Blockly with IoT solutions based on STM32, CEA, Canet Enterprise and STMicroelectronics open the door to a new generation of engineers and pave the way for new IoT jobs in Europe. Young students will learn how to become innovators and product developers of IoT projects discovering how to implement STM32 general-purpose microcontrollers.

Using Studio4Education students will become familiar with methods, processes and tools for realizing their own IoT solutions based on STM32 and get the necessary training to become future innovators and entrepreneurs.



## Partner Data



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