



EDUSAFE

IDEASQUARE

O. Beltramello – 16.07.2014

In this context, we are performing the Marie Curie Initial Training Network Program EDUSAFE ...

3.2 ME budget, 1st Sept. 2012 – August 2016

10 Early Stage Researchers (ESR), 2 Experienced Researchers (ER)

Coordinator: CERN

9 Beneficiaries (3 industries):

AUEB, Athens University of Economics and Business, Greece

Canberra, France

CERN / ATLAS, Switzerland

EPFL, Ecole Polytechnique Federale de Lausanne, Switzerland

Novocaptis, Greece

IASA, Institute of Accelerating Systems & Applications, Greece

Prisma, Greece

TUM, Technical University of Munich, Germany

Universita Degli Studi Di Roma Tor Vergata, Italy

4 Associated Partners:

National Kapodistrian University of Athens

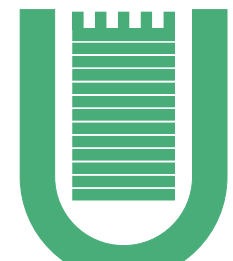
CAEN University, France

DUTH, Democritus University of Thrace, Greece

NTUA, National Technical University Athens, Greece



Athens University of Economics and Business



UNIVERSITA' degli STUDI di ROMA
TOR VERGATA



What are the EDUSAFE Research and Training Challenges ?

- **Real time data transmission in difficult wireless environments**
- **Real time data analysis (image/sensors)**
- **Real time data visualization methods, with rendering optimization**
- **Integrated control system development adaptable to various environment**
- **Analysis and development of the most appropriate display infrastructure systems, architecture and command methods to visualize data.**
- **Development beyond the state of the art of a light and fast gamma radiation camera and its associated SW with AR features and integrated the system**
- **Portability, wearability, complex interfaces of the personal portable system optimization**

Electronics, software, mechanics, physics and radiation calculations, fast wireless transmission computer vision, business and economics ..

EDUSAFE Project planning

Achievements:

- ✓ **Fall 2013:** System architecture have been proposed and approved by the collaboration
- ✓ **1st system prototype integration and testing campaign planned for Dec. 2014**
- ✓ **Spring 2014:** 1st prototype technical is approved

Future:

- ✓ **End 2014:** 1st prototype integrated and tested in ATLAS environment.
- ✓ **Spring 2015:** Following the 1st testing campaign – Revision of the system architecture and technical orientations if required.
- ✓ **End 2015 / Spring 2016:** Final testing campaign

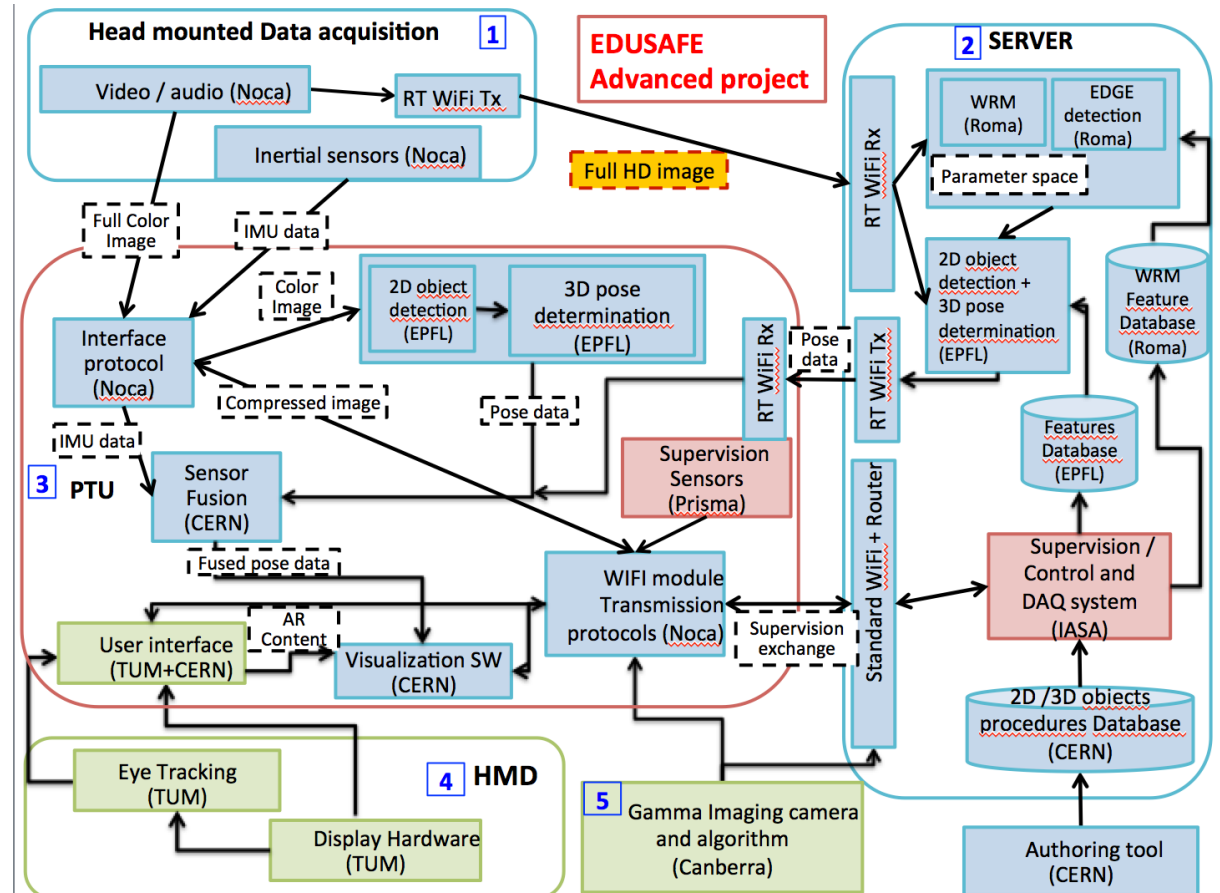
1st Prototype – Dec 2014



Supervision

AR prototype

Dosimeter and PTU
(Personal Transmitter Unit)



Requirements for IDEASQUARE

- **Host the CERN EDUSAFE team**
- **Possibility to host the ESR/ERs when they come at CERN for secondments and testing (very regularly)**
- **We would need two containers**
- **We would need to access regularly the electronics workshop and also occasionally the mechanical workshop**
- **We can expose our prototype on a glass box.**
- **Would you require some device “operational” to demonstrate to public ?**

All the collaboration is currently working on a continuation of EDUSAFE project.