

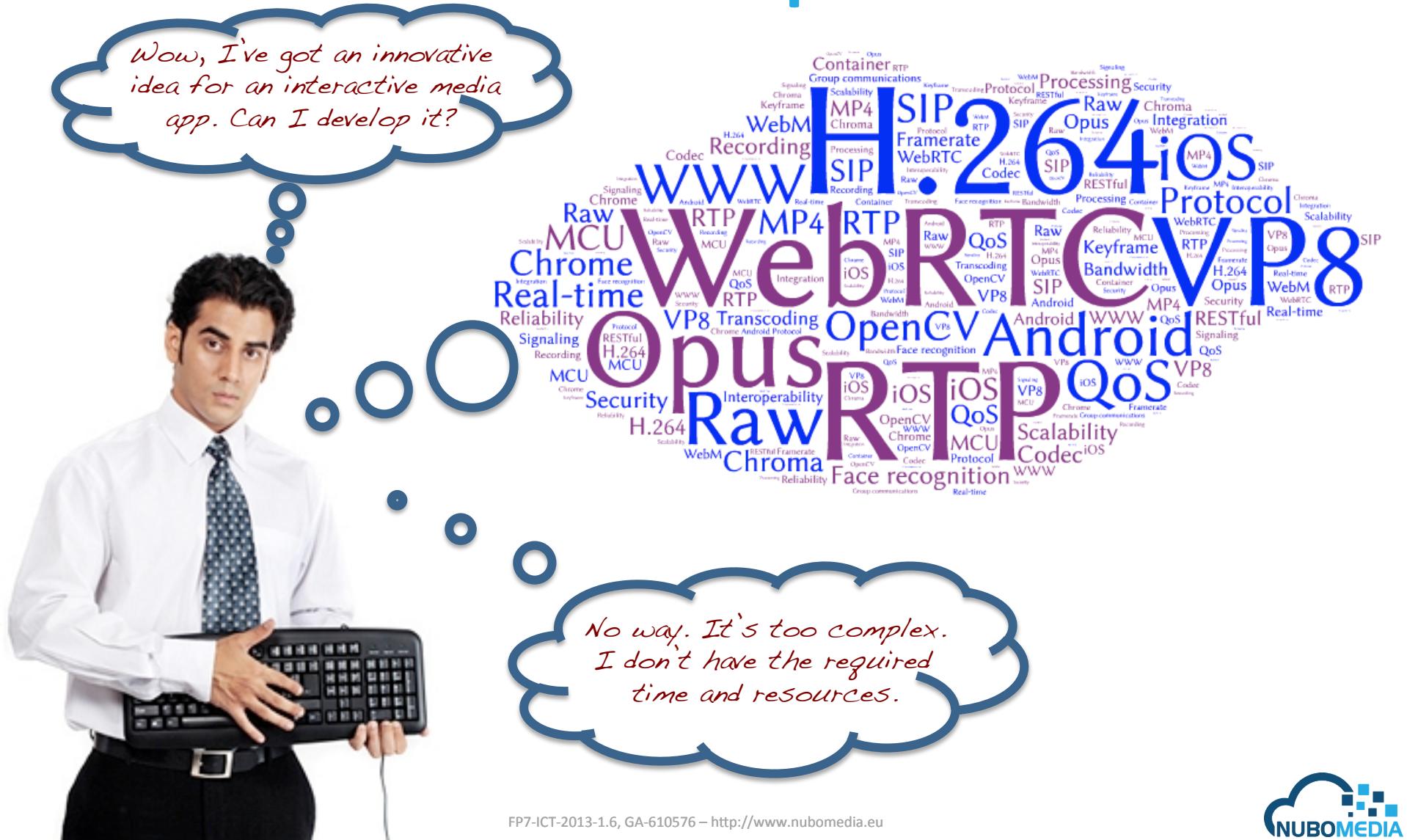
An elastic Platform as a Service (PaaS)
cloud for interactive social multimedia



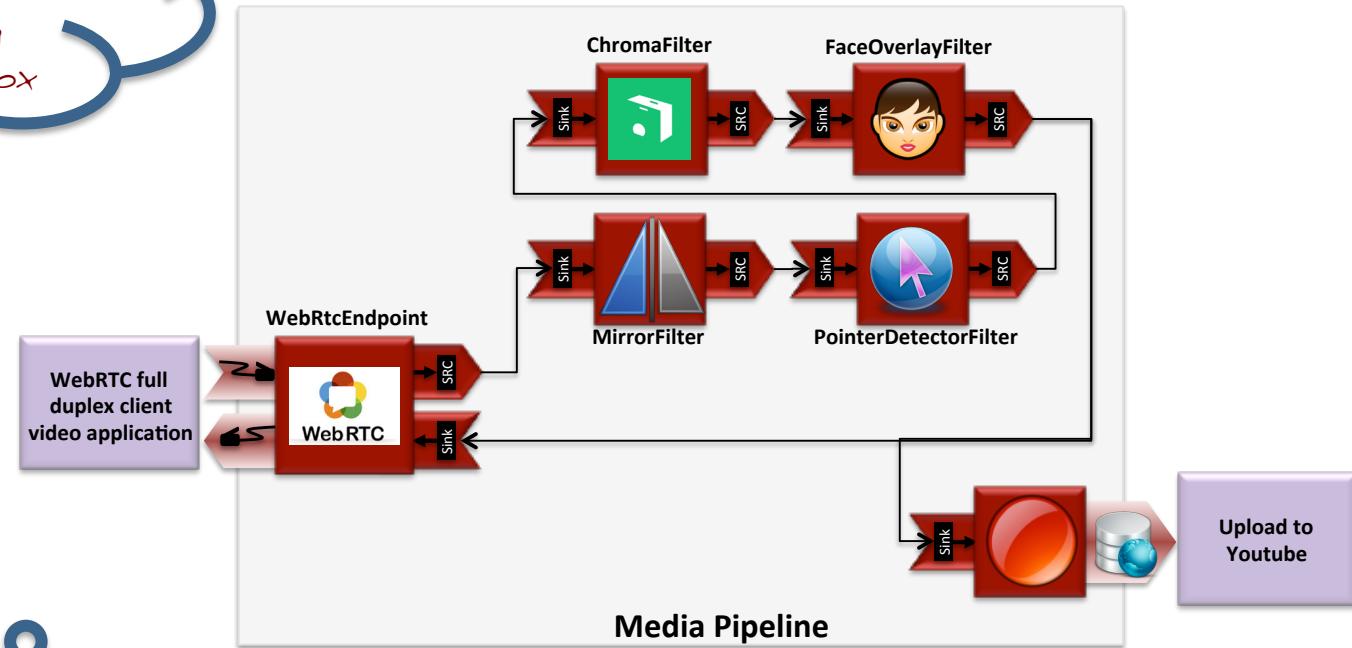
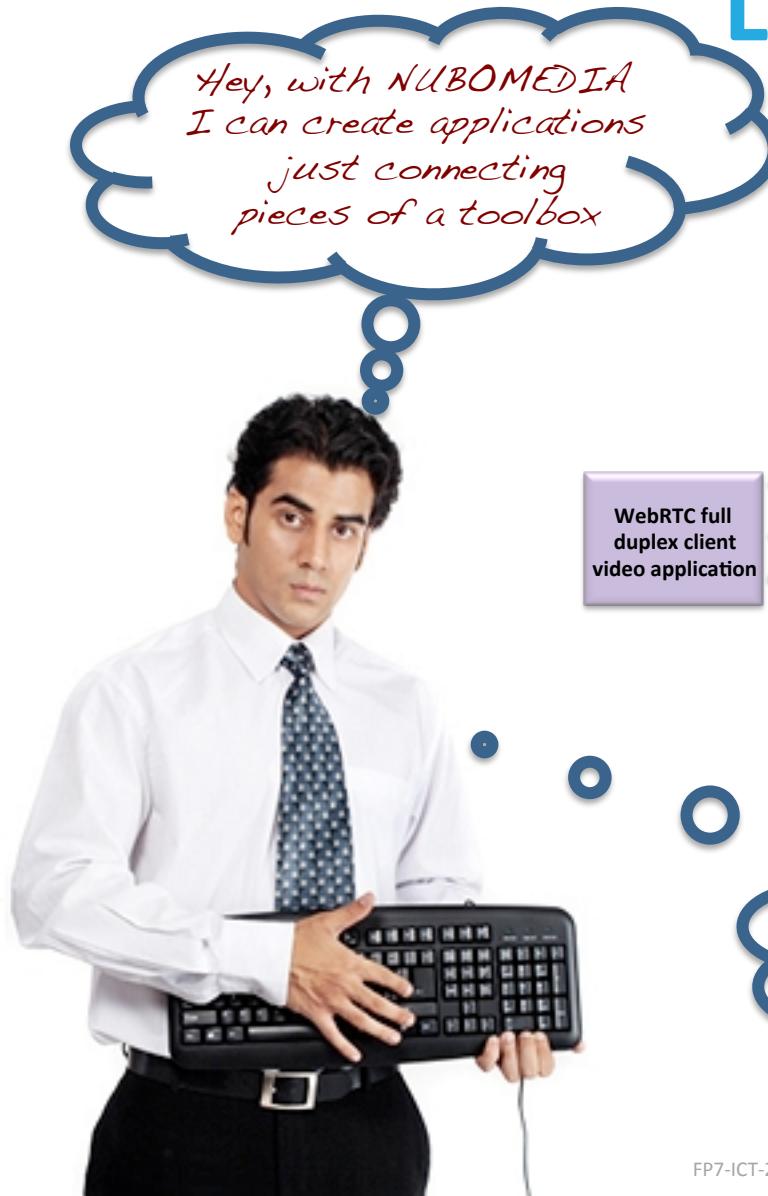
<http://www.nubomedia.eu>



Problem statement: interactive multimedia development is hard



With NUBOMEDIA developing is just a Lego game

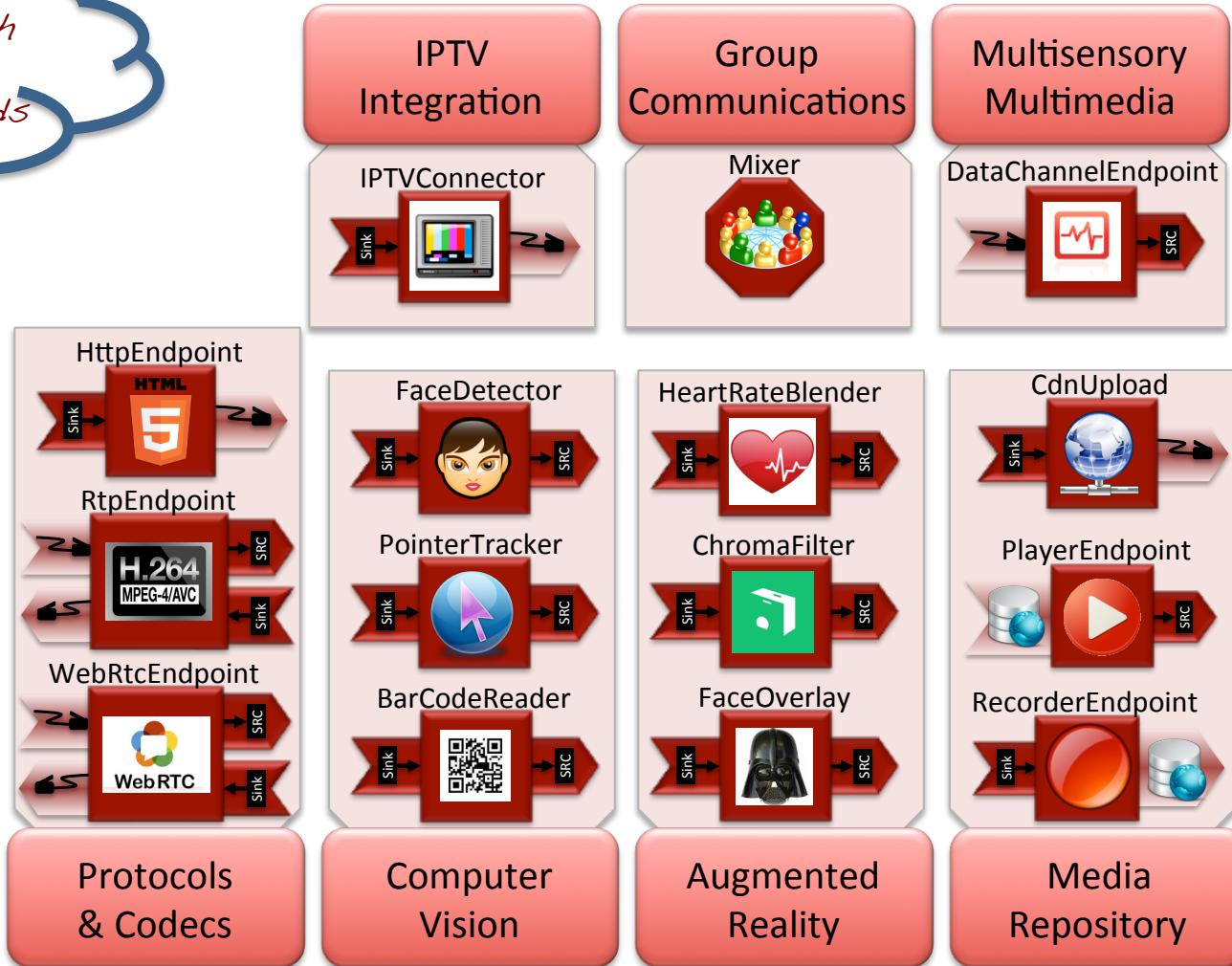


*Hey, with NUBOMEDIA
I can create applications
just connecting
pieces of a toolbox*

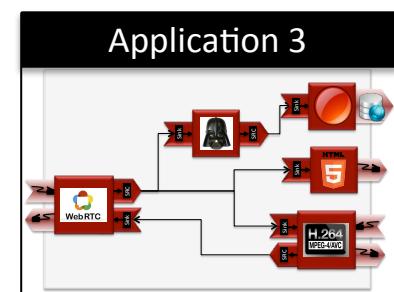
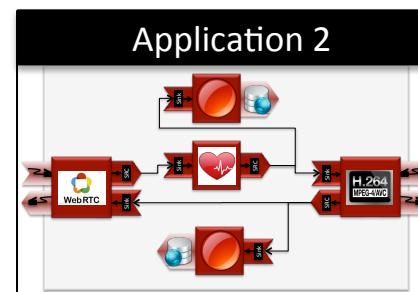
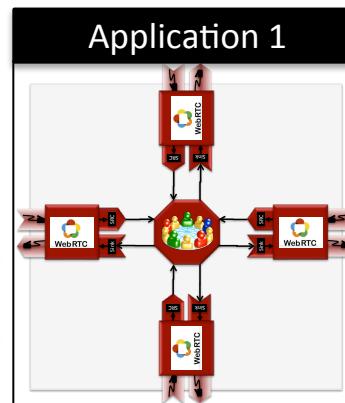
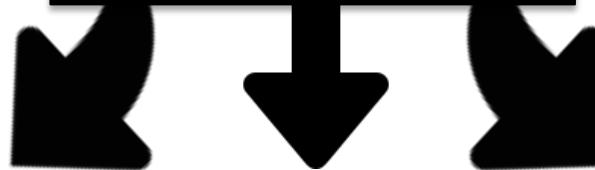
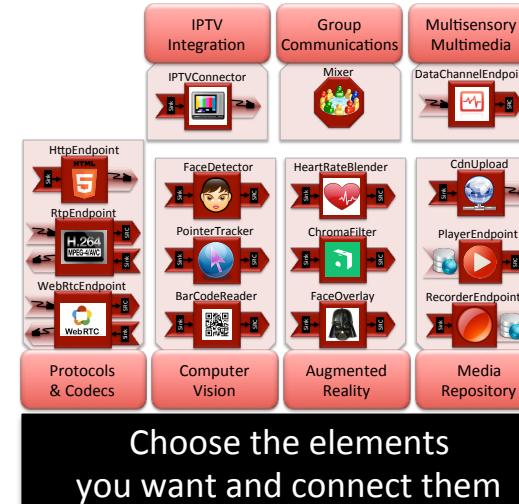
*It's simpler and faster.
I don't need to understand
the low level details.*

NUBOMEDIA provides a rich toolbox of innovative capabilities

The toolbox is very rich
and provides elements
implementing latest trends
in multimedia



NUBOMEDIA applications are just pipelines of toolbox elements



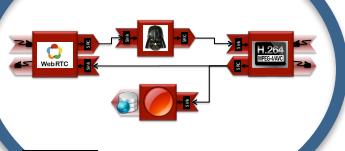
NUBOMEDIA really shines as a scalable deployment platform



1 Develop your app using a simple API

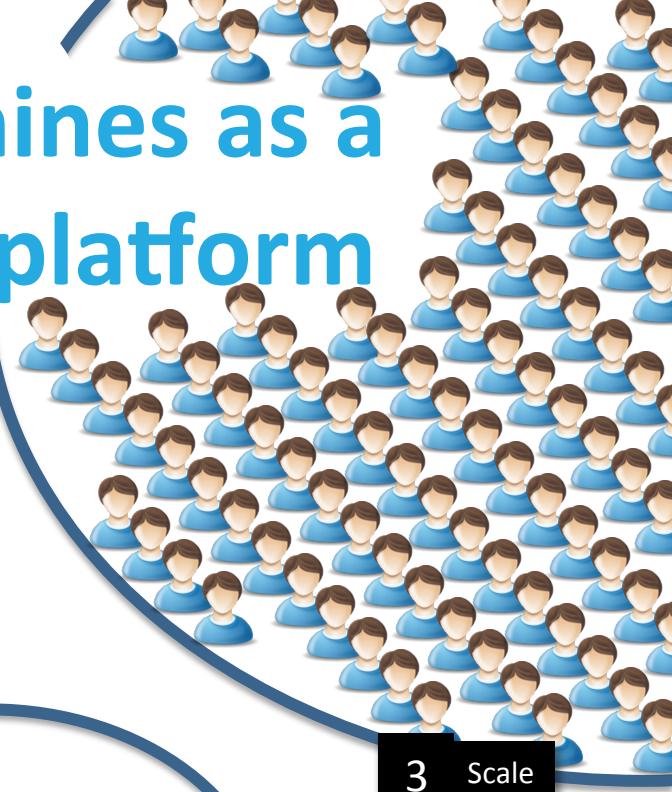
FP7-ICT-2013-1.6, GA-610576 – <http://www.nubomedia.eu>

2 Deploy into the NUBOMEDIA cloud

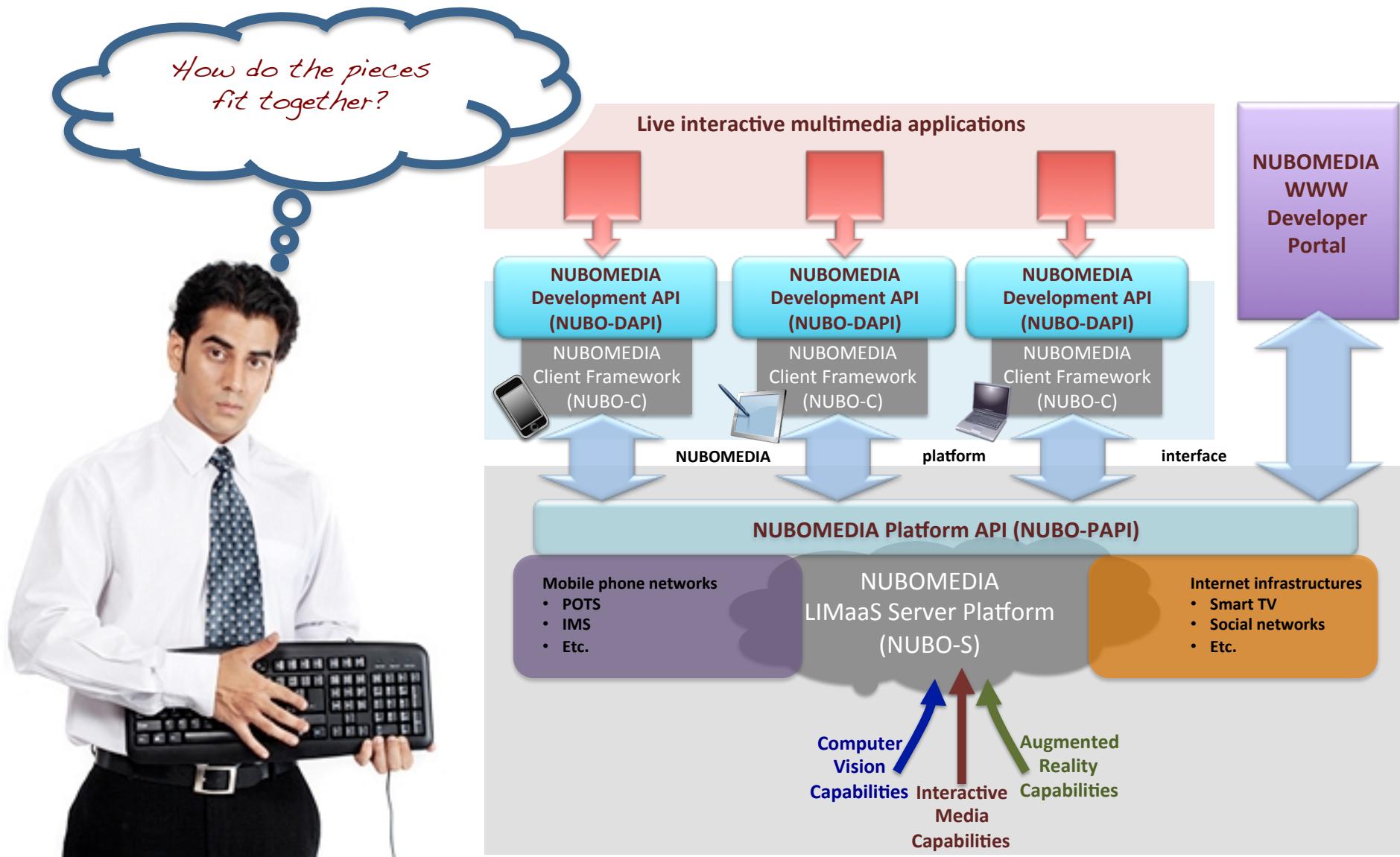


NUBOMEDIA
developer portal

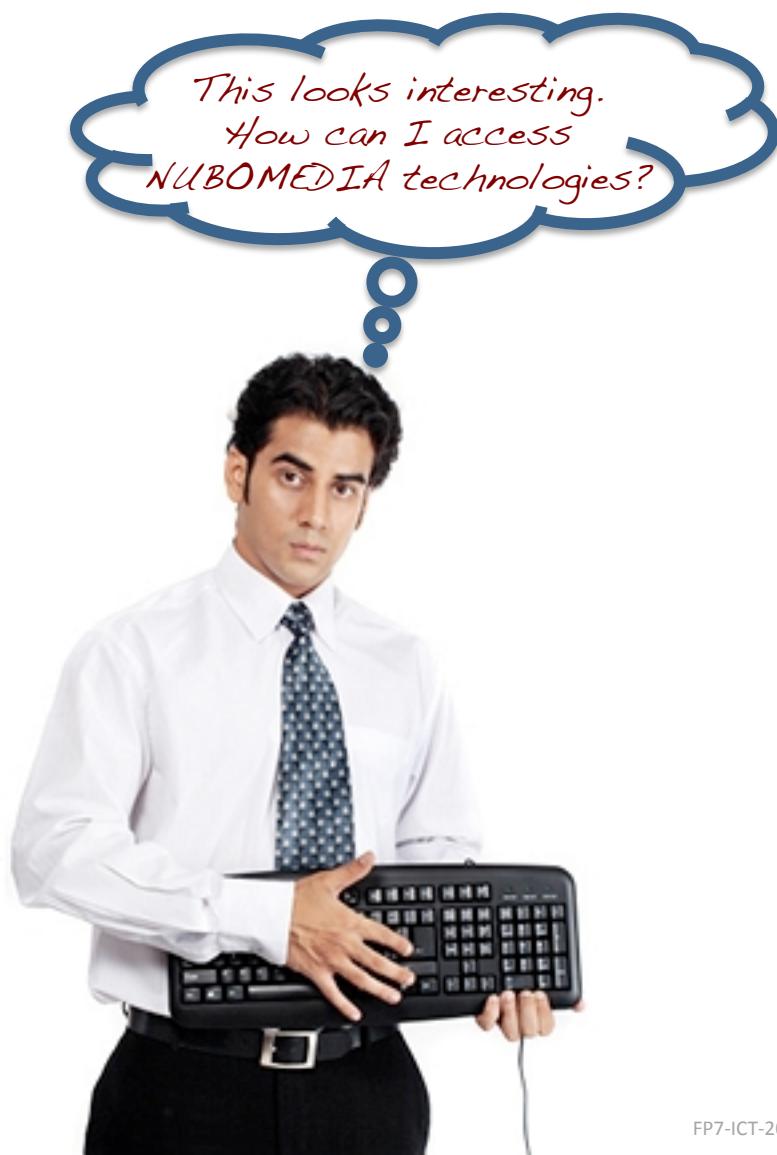
3 Scale



NUBOMEDIA: an end-to-end architecture



NUBOMEDIA is Open Source Software



Use NUBOMEDIA freely

Fork NUBOMEDIA freely

Extend NUBOMEDIA freely

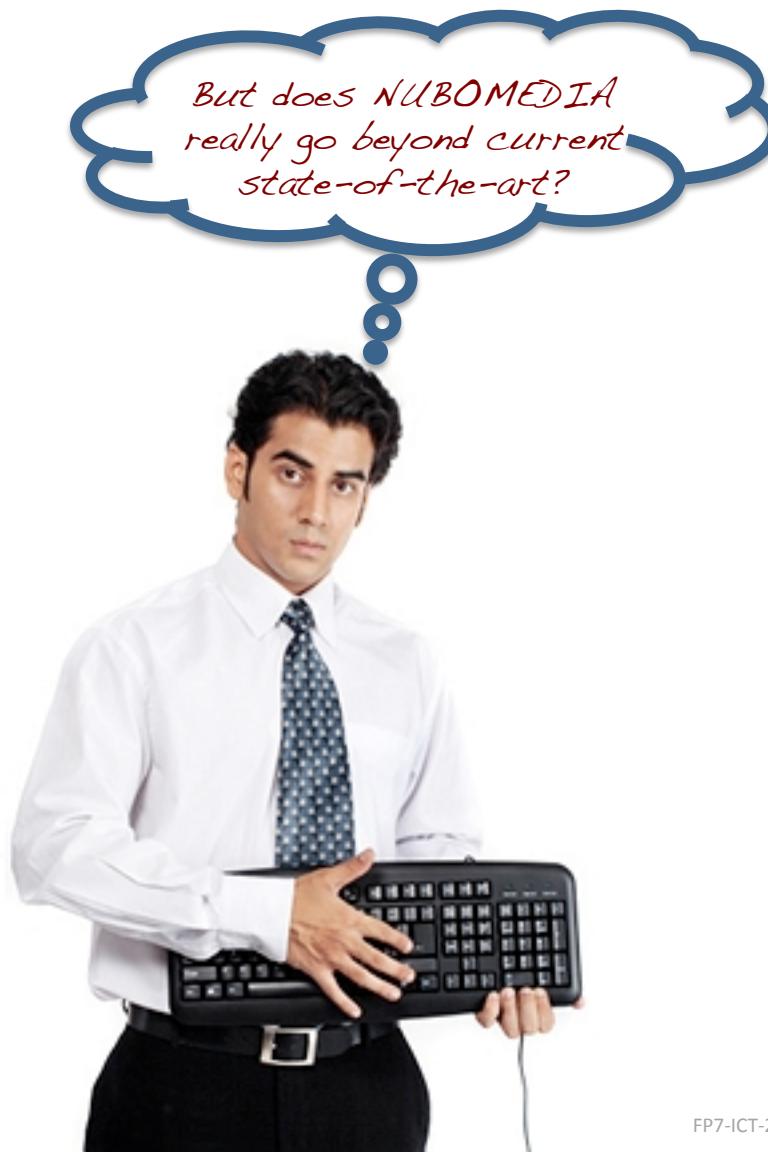
Distribute NUBOMEDIA freely

Experiment with NUBOMEDIA freely

Access NUBOMEDIA source code freely

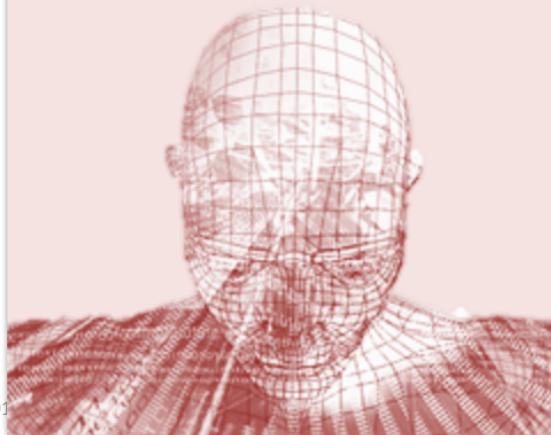
Add your media capabilities to NUBOMEDIA
using the licensing scheme of your preference

NUBOMEDIA: research challenges



Research challenges on media capabilities and APIs

- Multisensory multimedia
- Really social group communications
- Computer Vision simple integration
- Augmented reality integration
- 5G ready media framework
- Structured group communications
- Multimedia communication security
- Zero documentation APIs
- Integrated multiflow synchronization
- Visual development of services
- Intelligent media mixing



Research challenges on media infrastructures.

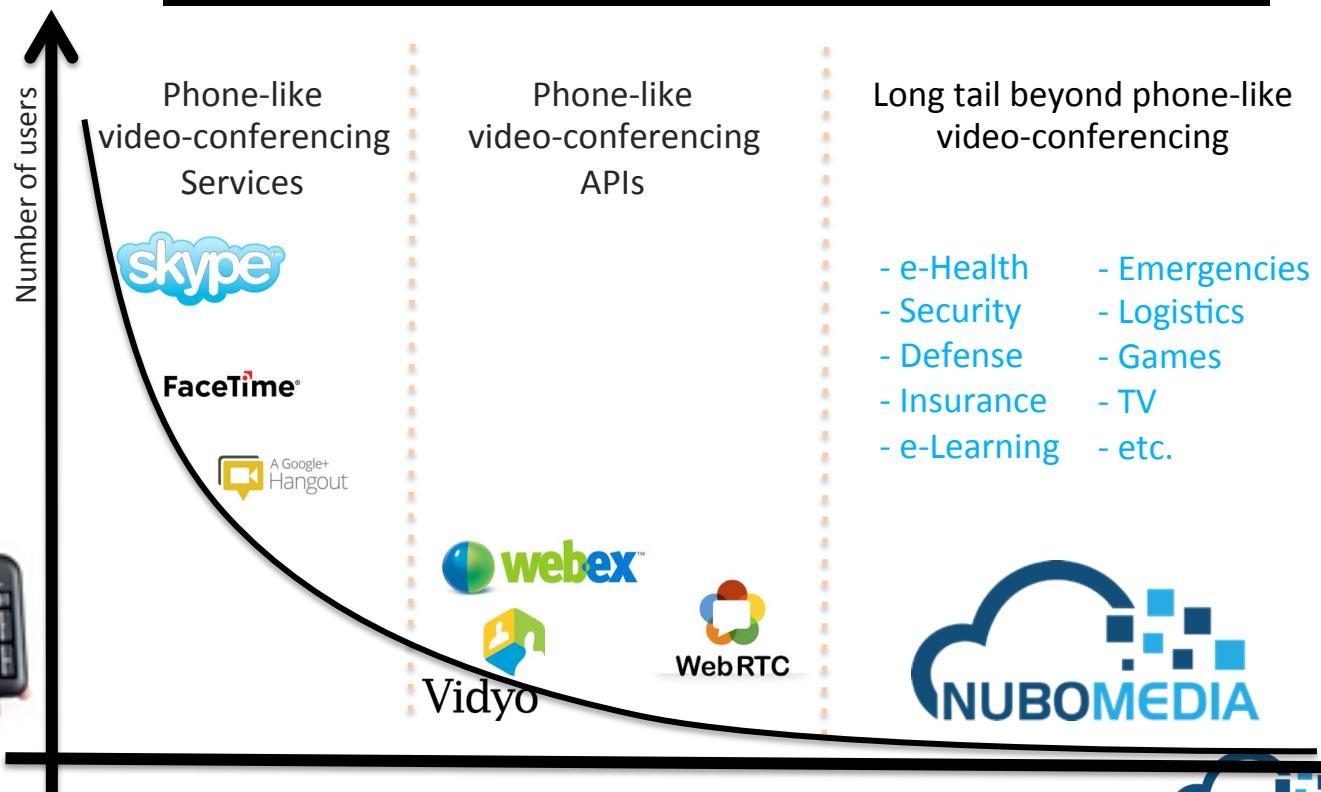
- Software defined Networks for QoS
- Social topology aware infrastructures
- Intelligent cloud placement
- Content aware networks
- Unlimited group sizes
- Seamless IMS integration
- Unlimited content storage
- Event driven architecture
- Self-reconfiguration / management
- Plug & play hardware architecture
- End-to-end infrastructure



NUBOMEDIA: interactive communications for the long tail

In which application areas can NUBOMEDIA be exploited?

NUBOMEDIA exploitation plan is targeted to long-tail vertical markets having special communication requirements



NUBOMEDIA roadmap

02/2014

- Project startup

01/2015

- First operational version of the platform
- Connectivity manager

01/2016

- Release of development APIs for WWW and smartphone platforms.
- Release of NUBOMEDIA developer portal.

09/2016

- Project closing
- Final reports

09/2014

- Architecture
- Definition of advanced media features (CVA, AR)

09/2015

- Stable operational version of the platform
- PaaS manager

05/2016

- Release of business oriented demonstrators
- Launch of FOSS community

NUBOMEDIA: the multimedia cloud



Partners

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ITALIA

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Portable Uplink Solutions

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 NUBOMEDIA