



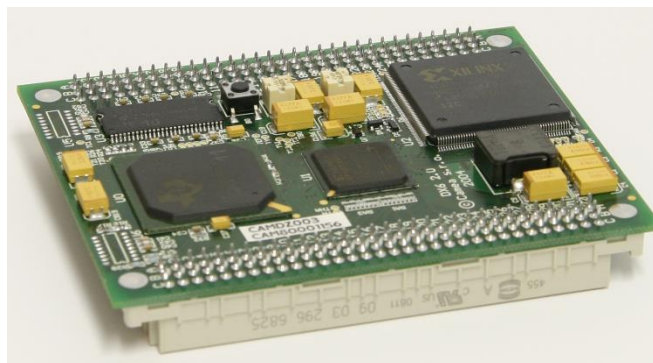
# Experience with EUREKA!

Pavel Zemčík



28. 11. 2018

*„What is the experience with EUREKA!?“  
... Good International scheme that  
„pushed“ more collaboration ...*



## *Outline:*

- CAMEA project history
- Application process
- Execution of projects
- Individual projects
- Conclusions

## *Projects:*

- INTELLIVIDEO (EUREKA, 1/2005-12/2007)
- UNICAMNET (EUREKA, 1/2008-12/2012)
- OLIGOSYNT (EUREKA, 1/2008-12/2011)
- ARVIS (EUREKA, 3/2012-12/2016)
- CEPTIS (EUREKA, 4/2015-12/2017)
- MUSIC (PENTA, 11/2017, CZ 2018-running)

## *Application:*

- Dual-phase (International and local)

„+“:

- Well reviewed on both sides, national funding OK (single funding as opposed to e.g. ECSEL/ARTEMIS)

„-“:

- Slow evaluation due to timing of the phases
- Need to submit „dual language proposal“
- Different conditions and timing in different countries

## *Execution of the projects:*

- Pure local funding

„+“:

- Well reviewed on both sides, national funding OK (single funding as opposed to e.g. ECSEL/ARTEMIS)
- Quite flexible regarding changes, etc.

„-“:

- For companies, it is difficult to „reschedule“ budget (OK for academia – 5% „reschedule“ allowed)

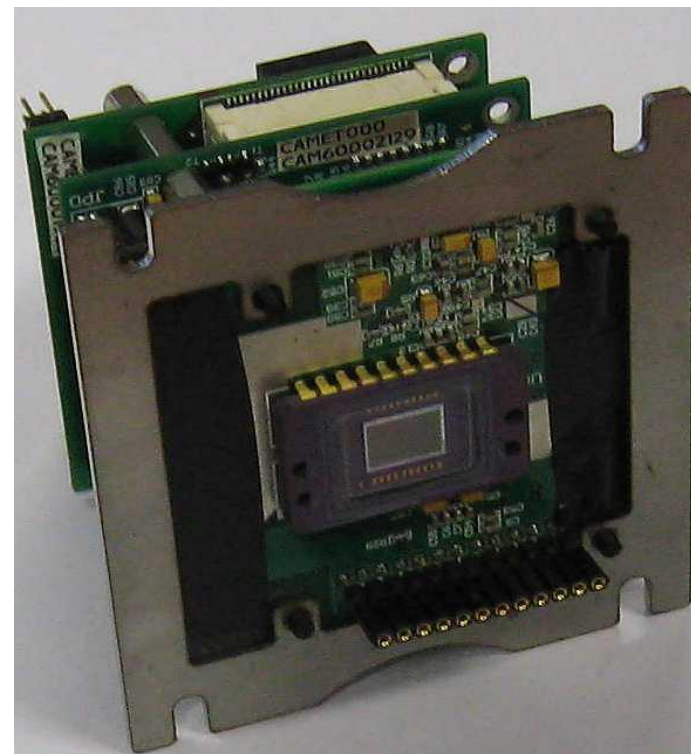
## *INTELLIVIDEO (1/2005-12/2007):*

- Intelligent digital video surveillance system with automatic video annotation for security/remote monitoring application

### Parties:

- CAMEA, Czech Republic
- VISUAL TOOLS, Spain

CAMEA: Design and applications of video camera platform in traffic Monitoring.



## *UNICAMNET (1/2008-12/2012):*

- Research and development of networked intelligent devices for traffic monitoring, enforcement and visualization

### Parties:

- CAMEA Czech Republic
- CADWORK Switzerland
- NOPE Slovakia

CAMEA: Traffic analysis

CADWORK: Visualization





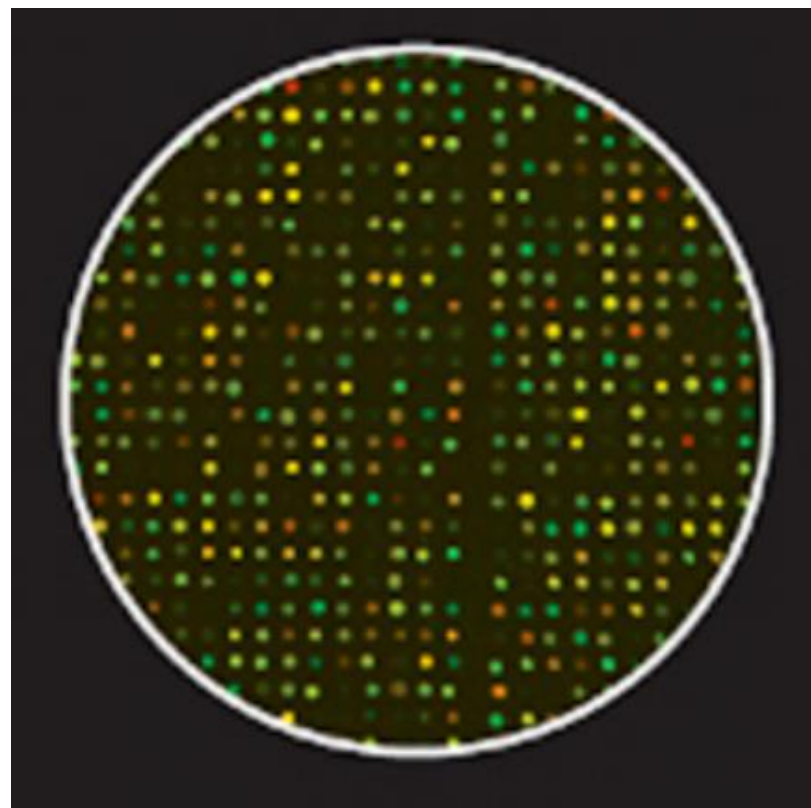
## *OLIGOSYNT (1/2008-12/2011):*

- Oligonucleotide dna micro-array synthesis quality

### Parties:

- CAMEA, RA, EYEDEA, ESSENCE LINE  
Czech Republic
- EUROGENOM SLOVENIA  
Slovenia

CAMEA: Camera hardware



## ARVIS (3/2012-12/2016):

- Automatic rail vehicle identification and uic codes recognition system

### Parties:

- CAMEA, STARMON  
Czech Republic
- NOPE  
Slovakia
- RTS Switzerland

CAMEA: Camera hardware  
and reading of characters



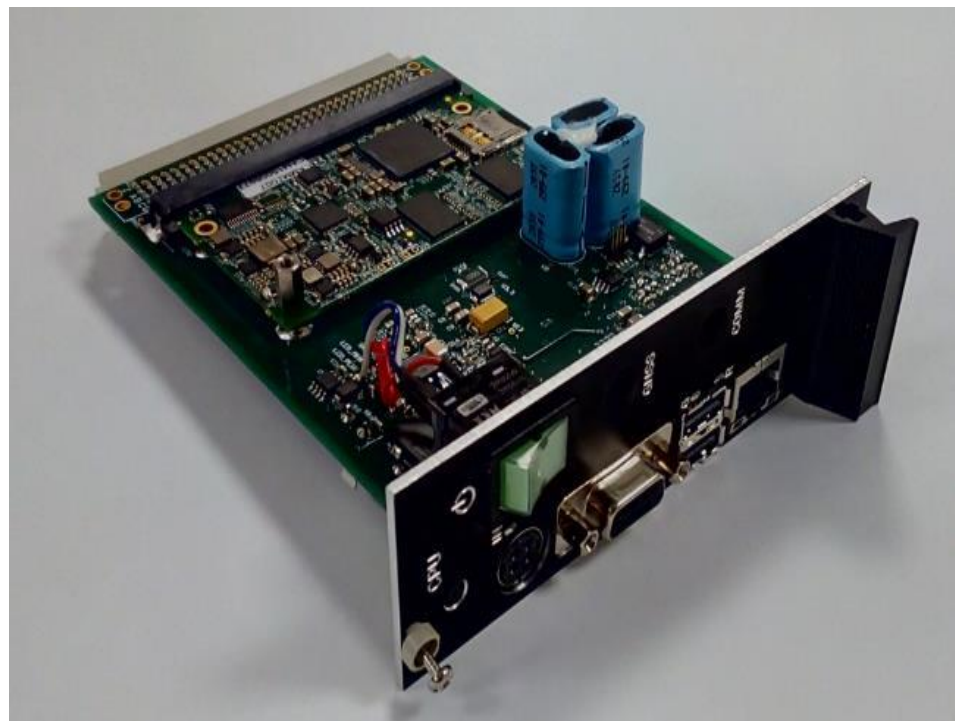
## *CEPTIS (4/2015-12/2017):*

- Computing embedded platform for transportation, industry and surveillance

### Parties:

- CAMEA, FIT BUT, Czech Republic
- RTS, Switzerland
- GOHDR, UK

CAMEA: Programmable hardware + CPU



## *CEPTIS Highlights:*

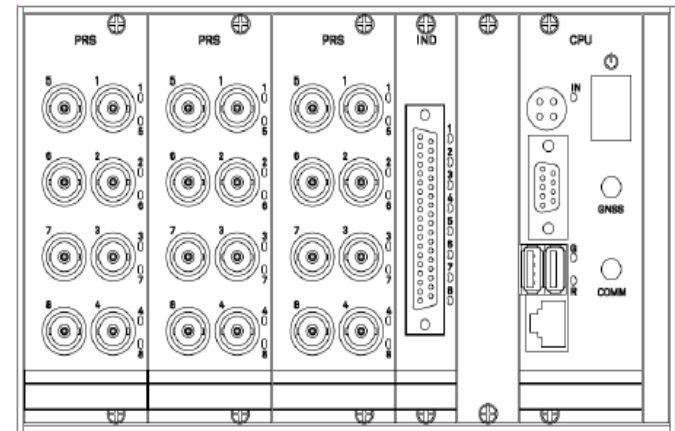
- Image processing application with HDR





## *CEPTIS Highlights:*

- Weigh in motion system hardware and software



*MUSIC (PENTA 11/2017, CZ 2018 - running):*

- Multi-level security for critical services

Parties:

- CAMEA, FIT BUT  
Czech Republic
- ST MICRO, GEMALTO, ADWARE, CEA,  
PROVE&RUN SAS, AIRBUS, CEA-LETI France
- Tecnologías Servicios Telemáticos Y Sistemas,  
Enigmedia, Integrasys, Quobis Networks, Hi-iberia  
Ingeniería Y Proyectos, Spain

CAMEA: Signal/image authentication/encryption

## *Conclusions:*

- Applications somewhat complicated but feasible
- Funding structure suitable and flexible
- International collaboration, as a principle, is very nice
- Evaluation „self organized“, sometimes complicated
- Overall, the projects are „SUCCESS“



Thank you for your attention!