



# Università degli Studi di Verona

*Computer Science Park*  
technology transfer for ICT companies





# CSP at a Glance

## >> Spin-offs:

- 3 established
- 2 just created

## >> Start-ups:

- 2 on the market by more than 7 years

## >> People:

- 19 operating partners
- 6 permanent employees
- 6 temporary employees

>> 1.1M€ annual turnover

## >> Total:

- 31 people involved +  $n$  consultants





# CSP Mission

- » Promote the technology transfer in all information and communication technology (ICT) fields
- » The Computer Science Park (CSP)
  - supports the creation of **spin-offs**, as joint initiatives between the Computer Science (CS) Department and companies and territorial institutions
  - attracts **start-ups** by providing an effective environment for expanding their business
  - is an effective location for **technical offices** of medium and large companies that aim at improving the technology level of their products





# CSP Services (I)

## » Offices with:

- high-level communication infrastructure, autonomous entrance, dedicated signs, completely furnished

## » Common infrastructures like:

- meeting rooms, workshops, conference room, server farm, canteen





# CSP Services (II)

- » Common logistics and administrative services
- » Integration, co-marketing, network initiatives
  - with other CSP companies and the CS Department
- » Internships for students
- » Consulting from professors and researchers
  - of the CS Department





# Opportunities for Companies (I)

## » Effective contracts:

- research + space
- research contract produces tangible results
- space in the CSP environment fertilizes the innovation  
the location for the innovation

## » Mixed research contracts:

- basic research, internships, thesis, proof analysis
    - CS mission
  - applied research, prototypes, training, unlabeled products
    - CSP mission
- a unique partner with two different sensibilities





# Opportunities for Companies (II)

## » Technology transfer facilitation:

- research results are transformed in product prototypes for their easy inclusion into a product portfolio, this is the correct way to cover the last mile in technology transfer

## » Funded projects organization:

- consortium organization (e.g., partners for RTI, international links)
- proposal preparation
- coordination and third-party structure

how to enter in Horizon 2020 - POR - JP





# Spin-off Companies

- » 3Dflow s.r.l. - [www.3dflow.net](http://www.3dflow.net)
  - computer vision and image processing
- » AltairMed s.r.l. - [www.altairmed.it](http://www.altairmed.it)
  - surgical robotics
- » Julia s.r.l. - [www.juliasoft.com](http://www.juliasoft.com)
  - software verification
- » BBZ s.r.l. - [www.bbzsrl.com](http://www.bbzsrl.com)
  - medical technologies
- » D-Nest Web srl s.r.l. - [www.dnest.eu](http://www.dnest.eu)
  - semantic web





# Start-up Companies

» eVS s.r.l. - [www.embeddedvisionsystems.it](http://www.embeddedvisionsystems.it)

- embedded vision systems



» EDALab s.r.l. - [www.edalab.it](http://www.edalab.it)

- networked embedded systems



» on the market since more than 7 years





# 3Dflow s.r.l.



3Dflow is a consulting company and software house operating in the field of Computer Vision and Image Processing

## » PRODUCTS:

- *3DF Zephyr* allows you to automatically reconstruct 3D models from photos



## » SERVICES:

3Dflow offers customized computer vision software solutions built around our expertise in the following areas:

- 3D reconstruction
- 3D modeling from reality
- 3D Stereo processing
- augmented reality





# AltairMed s.r.l.

AltairMed main goal is the translation of the laboratory research in **health care robotics into products** of the company's main shareholder, Surgica Robotica Srl.

Technologies being addressed are mainly concerned with robot-assisted surgery, including control and medical image registration algorithms.



These technologies have been used in the development of the prototype of Surgica Robotica first product:

*which is currently undergoing industrialization and refinement*





# JULIA s.r.l.

**Julia srl** specializes in the production of tools for formal automatic **verification of computer programs** and the **development of high-quality, formally verified software**.

Our clients include DARPA (US Dept. of Defence) and one of the major Italian insurance companies



## ❑ JULIA ANALYZER

- an award-winning verification tool
- based on static analysis and abstract interpretation
- successfully deployed in *banking* and *insurance* environments

## ❑ SOFTWARE DEVELOPMENT

- high quality software for complex solutions
- multicore, cloud and mobile solutions
- Java, Android, GWT, Play!, Vaadin...
- all our software passes the verification tests of our static analyzer



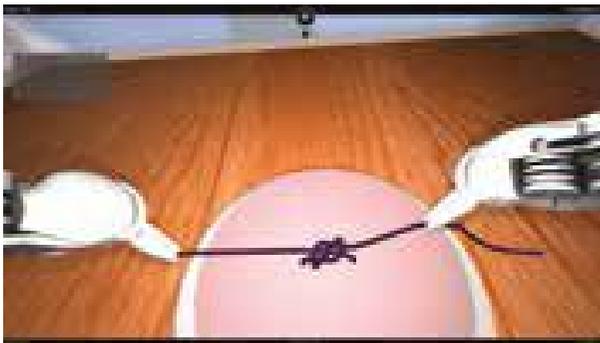


# BBZ s.r.l.

## |B|B|Z|

BBZ Srl is active in the development of **hardware and software tools for medicine and surgery**

The expertise of its founders ranges from the development and certification of surgical robots, to the interactive simulation of realistic environments on parallel architectures



### » PRODUCTS & SERVICES:

- Design and production of Hardware and Software for medical applications, like dental implantology, laparoscopic surgery training systems, patient specific simulation for surgery planning





# D-Nest Web s.r.l.

d-nest Web is the company that shall build the **crossroads of innovation**: a collaboration system that allows users to collectively develop industrial innovation (product, process, channel, market) and technological innovation or artistic or cultural one under legal bonding. D-nest offers a wide range of **IT support to the development of innovation**, again by means of collaboration platforms, and supports the development of innovation in industry by offering related consultancy.

» **SERVICES:**

- information-driven innovation
- web technologies
- semantic web
- industrial consultancy on semantic engines



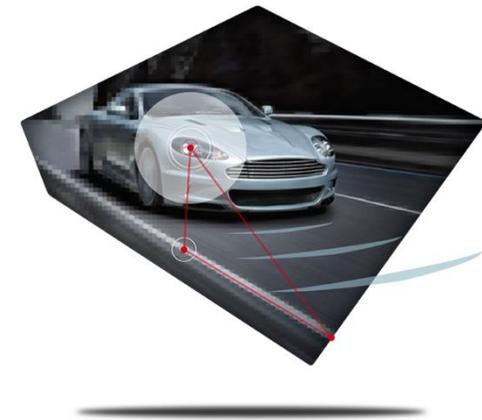


# eVS s.r.l.



eVS designs **computer vision software on embedded architectures**

eVS is a high-tech company strongly oriented towards research and innovative solutions for Driving Assistance, Biomedical Imaging, Machine Vision and Security



## » PRODUCTS:

- **IP<sup>2</sup> core lib:** FPGA IP Core library for Image Processing, Feature Extraction, Object Recognition
- **BeQuanti:** biomedical software tool for leukocyte trafficking analysis
- **PCN:** People and Passenger Counter for public transport and building automation

## » SERVICES:

- R&D services to system integrators and OEMs who want to renew or revise their products with vision capabilities
- Feasibility studies
- Prototyping, Technology transfer



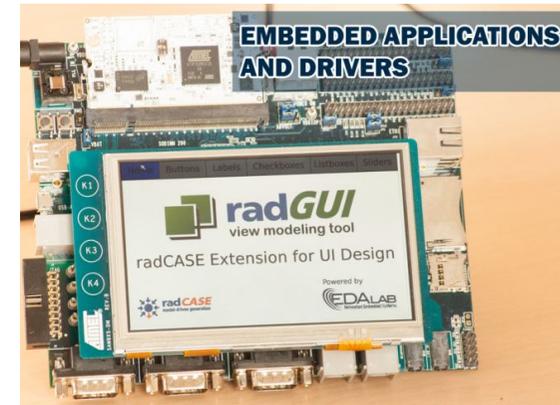


# EDALab s.r.l.



EDALab produces **software solutions for Embedded Systems.**

EDALab offers different cooperation types in order to meet heterogeneous innovation requirements, starting from customer driven software development ending with design and software integration of entire systems.



## » PRODUCTS:

- Human Machine Interface (HMI) for embedded devices
- Design of control devices and set-top-boxes for monitoring and data acquisition
- Web 2.0 Dashboards for remote control and monitoring





# Take-Home Messages

- » Do you want to create a spin-off?
  - the CSP hosts your ideas
- » Are you a start-up?
  - locate it at CSP to boost your business
- » Does your company need to locate part of the research activity?
  - a research+space contract at CSP is the solution
- » Are you looking for effective technology transfer?
  - CSP+CS can help you with a mixed research contract
- » Looking for funded projects organization?
  - CSP+CS is a credible third party able to organize proposals

