OPEN INNOVATION SYSTEM
BASED ON RESEARCH AND INNOVATION
TO ENHANCE ECONOMIC GROWTH AND DEVELOPMENT
ARGO SYSTEM: WHY?

Optimization of previous investments

Research activity and advanced training

Process innovation (digitization)

Industrial development

Investment attraction

To attract
talent
companies
capital
JOB CREATION

ATTRACT

SISTEMA ARGO

MEASURE

PRODUCTIVITY \ ECONOMIC GROWTH

RESEARCH & DEVELOPMENT
IMPACT
Jobs and investment generated

- New staff members: +69
- Under 30 research fellows: 16
- Permanent employees: 23
- People employed thanks to Java BioColloid: 30
- Sustainable circular economy
- Engineering IT electronics
- Specialisation sectors
- Generation of businesses
- 2018-2019 total investments: €5,89 M
PROCESS INNOVATION

INNOVATIVE INDUSTRIAL SETTLEMENTS

NEW BUSINESS CREATION

4 PILLARS

SCIENTIFIC & TECHNOLOGICAL PLATFORMS
INNOVATIVE INDUSTRIAL SETTLEMENTS

4 PUBLIC PARTNERS

COSELAG

- Municipality of Trieste
- Municipality of San Berlino della Valle
- Municipality of Maggia

PLANNING AND EXPERIMENTATION OF A NEW INDUSTRIAL DEVELOPMENT MODEL IN THE COSELAG AREA

1 PRIVATE PARTNER

FREeway TRIESTE
THE INDUSTRIAL INNOVATION HUB

DEVELOPMENT AND STRENGTHENING OF FREeway IN COOPERATION WITH SAMER GROUP
<table>
<thead>
<tr>
<th>INDUSTRIAL INNOVATION HARBOUR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creating a haven for industrial innovation</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Evolutive scenario analysis</th>
<th>Industrial development model</th>
<th>Active working table</th>
<th>New manufacturing companies created</th>
<th>Industrial settlements</th>
<th>Investments</th>
<th>Jobs created</th>
<th>Negotiations for new settlements</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ done</td>
<td>✓ done</td>
<td>9</td>
<td>1</td>
<td>1800 sqm</td>
<td>€ 3M</td>
<td>30</td>
<td>4 in progress</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>STUDY CENTRE</th>
<th>Understanding and anticipating technological trends</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Studies carried out</th>
<th>Studies ongoing</th>
<th>Pilot projects</th>
<th>Proprietary data platforms developed</th>
<th>Data platforms available</th>
<th>Competence Centre “Innovation”</th>
<th>Competence Centre “Life Sciences”</th>
<th>Competence Centre “Sustainability”</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td>3</td>
<td>✓ active</td>
<td>✓ active</td>
<td>✓ active</td>
</tr>
</tbody>
</table>
SCIENTIFIC & TECHNOLOGICAL PLATFORMS

1. GENOMICS & EPIGENOMICS PLATFORM
   Center of a nation-wide hub&spoke genomics network

2. ADVANCED/HIGH TECH MATERIALS PLATFORM

3. STRUCTURAL BIOLOGY PLATFORM

Research/Industry
Open Lab
Collaborative System
PLAT FORMS AND PARTNERS

1) ADVANCED/HIGH TECH MATERIALS PLATFORM

2) GENOMICS AND EPIGENOMICS PLATFORM

3) STRUCTURAL BIOLOGY PLATFORM
- Cryogenic-temperature Electron Microscopy (CryoEM)
- Transmission Holographic Electron Microscopy (Holo-TEM)
- Mass Spectrometry Imaging (MSI)
- Next Generation Sequencing (NGS)
GENOMICS AND EPIGENOMICS PLATFORM

- processes 48 genoms in 44 hours
- 6,000 GB
- more than 10 runs since March
# Technological Platforms

Promoting a cutting-edge national scientific network

<table>
<thead>
<tr>
<th>Category</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Investments</td>
<td><strong>€ 2,15 M</strong></td>
</tr>
<tr>
<td>Last-generation sequencer</td>
<td><strong>1</strong> procured and functioning</td>
</tr>
<tr>
<td>Sequencing runs</td>
<td><strong>32</strong></td>
</tr>
<tr>
<td>Agreements on the use of platforms</td>
<td><strong>8</strong></td>
</tr>
<tr>
<td>Days of functioning</td>
<td><strong>112</strong></td>
</tr>
<tr>
<td>Days devoted to research activities</td>
<td><strong>68</strong></td>
</tr>
<tr>
<td>Allocation for research activities</td>
<td><strong>55%</strong></td>
</tr>
<tr>
<td>Machine usage</td>
<td><strong>22%</strong></td>
</tr>
<tr>
<td>Data output</td>
<td><strong>28,4 Terabytes</strong></td>
</tr>
<tr>
<td>Involved research projects</td>
<td><strong>4</strong></td>
</tr>
<tr>
<td>Research projects in the pipeline</td>
<td><strong>10</strong></td>
</tr>
<tr>
<td>Data Center</td>
<td><strong>1</strong> procured and undergoing testing</td>
</tr>
<tr>
<td>Total available memory</td>
<td><strong>13</strong> Terabytes</td>
</tr>
<tr>
<td>Storage capacity</td>
<td><strong>2,4 Petabytes</strong></td>
</tr>
<tr>
<td>In band network speed</td>
<td><strong>100 Gigabyte/second</strong></td>
</tr>
<tr>
<td>Core Nodes</td>
<td><strong>472 overall</strong></td>
</tr>
</tbody>
</table>
PROCESS INNOVATION - IP4FVG

Open and inclusive regional platform to promote the digital transformation of SMEs and the continuous training of ICT operators

4 NODES

2 PROGRAMMES

+700 COMPANIES INVOLVED - TARGET 2021

+20 STRATEGIC ICT PROJECTS
Each node has 2 main functions:
Access point for local enterprises
Thematic specialization

Advanced manufacturing solutions
Pordenone

Data optimization & simulation
Trieste

Data analytics & artificial intelligence
Udine

Control hub
11 members

Internet of Things
Amaro (UD)

Nodes
PROGRAMMES

"INDUSTRIA 4.0"
ALL INDUSTRIAL SECTORS
Specialized demonstrators in each node

"CANTIERE 4.0"
BUILDING SECTOR
Roadshow demonstrator at local authorities
IP4FVG
Boosting digital transformation

Investments
- € 1,35 M
- Ongoing

Mapping regional ICT market
- ✔

Digital Readiness Assessment
- 89 companies involved

Living Lab on enabling technologies
- 4 acquisition in progress

Collaborative robots
- 1 procured and functioning

Cantiere 4.0 Building Constructions
- 2 demo corners

BIM interactive Catalogue
- ✔ Ongoing

BIM training for the public sector
- 4 events

BIM training for the public sector
- 350 participants
- 1 under development

BIM Coordinator Specialist courses
- 10

Awareness events for companies
- 7

Training courses for enterprises
- 450 participants

Awareness and training for enterprises
- 20

High school training days
- 10 patterns offered in the regional catalogue

School- Work Alternation Catalogue
- 2 International Summer Schools focusing on AI (2019-2019)

Sistema ARGO
NEW BUSINESS CREATION

STARTUP GENERATION SYSTEM
PRE-INCUBATION AND ACCELERATION SERVICES AND
PRE-SEED AND SEED CAPITAL PROGRAMMES IN SPECIFIC
INDUSTRIAL/TECHNOLOGICAL SECTORS

4 PARTNERS - REGIONAL CERTIFIED INCUBATORS
8M€ INVESTMENTS COLLECTED
16M€ AGGREGATE TURNOVER
+108 NEW BUSINESSES CREATED
+650 NEW JOBS
Al CES di Las Vegas la parata delle start up italiane

*Made in Italy, The Art of Technology* riunisce 50 realtà selezionate, provenienti da tutta la penisola e che si occupano di settori diversi, come Smart Transportation, Smart Cities, Smart Home, Digital Services e Robotics.

Al Ces di Las Vegas il più grande evento di startup al mondo

49 startups in the delegation

300 investors and partners involved

1 startup awarded with Innovation Awards Ces 2020
# HIGH IMPACT NET
Generating and strengthening startups

<table>
<thead>
<tr>
<th>CES</th>
<th>Consumer Electronics Show, Las Vegas</th>
<th>OTHER ACTIVITIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Italian Delegation to 2019 CES in Las Vegas</td>
<td>Startups evaluated for 2020 CES</td>
<td>National/international events with investors</td>
</tr>
<tr>
<td>✓ done</td>
<td>89</td>
<td>4 organised</td>
</tr>
<tr>
<td>49 scale-up programmes</td>
<td>Startups selected and trained for 2020 CES</td>
<td>Managerial training programmes for entrepreneurs</td>
</tr>
<tr>
<td>50</td>
<td>2 organised</td>
<td>Call to support the creation and development of enterprises</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1 published</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Coaching activities</td>
</tr>
<tr>
<td></td>
<td></td>
<td>9 development groups followed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CULTURAL AND CREATIVE SECTOR</th>
<th>Managed resources</th>
<th>Other activities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supported entrepreneurs and aspiring start-ups</td>
<td>Cultural creative Startups</td>
<td>Coordinating FVG incubator network</td>
</tr>
<tr>
<td>227</td>
<td>27 new projects to be launched</td>
<td>Regional sectoral cluster</td>
</tr>
<tr>
<td>31</td>
<td></td>
<td>1 to be launched</td>
</tr>
</tbody>
</table>

| | Territorial events | Sectoral studies | Coordinating FVG incubator network |
| | 6 organised | 1 ongoing | ✓ done |

**Total:**
-Italian Delegation to 2019 CES in Las Vegas: 49 scale-up programmes
-Startups evaluated for 2020 CES: 89
-Startups selected and trained for 2020 CES: 50
-Supported entrepreneurs and aspiring start-ups: 227
-Supported cultural creative startups: 31
-Cultural creative Startups: 27 new projects to be launched
-Managed resources: €902,003
-Territorial events: 6 organised
-Sectoral studies: 1 ongoing
-Coordinating FVG incubator network: ✓ done
-Regional sectoral cluster: 1 to be launched
NATIONAL EXTENSION

FUTURE INTERNATIONAL PARTNERSHIPS