North-East Region Romania and perspectives for smart specialization
Population: 3.3 mil. inhab.  
(16.4% of Romania’s total population)

Surface: 36.850 sq. kms  
(17.6% of Romania’s territory)

3 airports  
(Bacau, Iasi, Suceava)

3 academic centers  
7 state universities  
4 private universities  
31 PhD schools  
(66,356 students)
**Economic context**
- Regional GDP: 13,470 million Euro;
- 48,591 active enterprises
- 79 research-development-innovation units;
- 10 clusters - medical molecular imaging, textiles, tourism, new media, IT&C, foodstuff industry, biotechnology, constructions

**Competitive advantages**
Highest levels of productivity:
- industry,
- IT&C,
- constructions

**Comparative advantages**
Exports: 2.2 billion Euro (30% increase during 2009-2012);
Groups of products showing comparative advantages:
- Clothing items and accessories, knitting or crochets, textile materials;
- Chemical inorganic products;
- Timber, wood charcoal and other wood articles;
- Footwear;
- Foodstuff industry products.
## Clothing and textile sector (SMAR-TEX)

<table>
<thead>
<tr>
<th>Sector of tradition of the region</th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Main products:</strong></td>
<td>yarns, fibers, clothing, knitting, lady stockings, socks, fine lingerie, textiles and other products of origin;</td>
</tr>
<tr>
<td><strong>Active units / sector</strong></td>
<td>880</td>
</tr>
<tr>
<td><strong>Employees / sector</strong></td>
<td>16,941</td>
</tr>
<tr>
<td><strong>Turnover</strong></td>
<td>286.2 million Euro</td>
</tr>
<tr>
<td><strong>Productivity</strong></td>
<td>38,000 Euro/employee</td>
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</tbody>
</table>
| **Major exponent of the sector** | **Astrico Nord-Est Cluster** (2010) – specialized on yarns and knitting  
- 23 member companies  
- 1,700 employees  
- Over 60 million Euro turnover |
**ICT sector (SMAR-TIC)**

<table>
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<tr>
<th>Main products/services:</th>
<th>Client-oriented software, IT consultancy &amp; services, hardware, digital media, cloud-based applications, devices, systems and advanced connectivity, streaming, telecommunications, computers and peripherals maintenance services; cable and wireless internet;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Active units / sector</td>
<td>1,505</td>
</tr>
<tr>
<td>Employees / sector</td>
<td>11,600</td>
</tr>
<tr>
<td>Turnover</td>
<td>366.8 million Euro</td>
</tr>
<tr>
<td>Productivity</td>
<td>11,944 Euro/employee</td>
</tr>
<tr>
<td>Clusters in the field</td>
<td>EURONEST IT&amp;C Hub Regional Innovative Cluster ICONIC – Interactive Cluster of New Media Industry</td>
</tr>
</tbody>
</table>


Biotechnology sector

8 large companies – involved in research-development and production of pharmaceutical medication
- Antibiotice SA - leading Romanian producer of generic drugs having its own Research Center for Antibiotics
- Institute for Biologic Research – focused on cellular and molecular biology, biotechnology, biodiversity, bioanalysis and bio-informatics.

2 universities with specialized profiles
- ”Gr. T. Popa” University of Medicine and Pharmacy, in Iasi
  ✓ Research in pharmacy biotechnologies, PhD School
  ✓ Biomedical Research Center – life science (biomedical and behavioural sciences)
- “Al. Ioan Cuza – University – Faculty of Biology (PhD School with researches on microbial and cellular biotechnologies)
Biotechnology sector

• **Regional Institute of Oncology** (30 mil. Euro investment, 300 beds)
• 3 research labs:
  - Molecular biology
  - Radiology and imaging
  - Radiotherapy.

• 2 clusters
  - **IMAGO-MOL** - The North-East Regional Innovative Cluster for Molecular and Structural Imaging
  - **bioROne** – The biotech cluster
Conclusions

The North-East Region of Romania has

- a good **academic infrastructure** capable to generate specialized human resource;
- **R&D** units
- **clusters**;
- **competences** and **specialization potential** in the textile, ICT and medicine sectors
Thank you!

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