INVESTMENT IN R&D ➤ R&D SPENDING

Although R&D intensity improved in 2015, it remains one of the lowest in the EU. The lack of progress towards the national target impedes the building-up of R&I capacities.

R&D intensity, showing public and private components (total R&D spending as % of GDP)

STRENGTH OF R&I SYSTEM ➤ HUMAN RESOURCES

The Romanian economy benefits from a large talent pool in science and engineering.

Number of new graduates in science and engineering per thousand population aged 25-34 (2014)

STRENGTH OF R&I SYSTEM ➤ MEDIUM-TO-HIGH-TECH MANUFACTURING

A large medium-high-tech manufacturing sector offers opportunities for R&I.

Value added in medium-high-tech manufacturing as % of total value added
KEY CHALLENGE ➤ PUBLIC SCIENCE BASE

The quality of the science base lags far behind the European average.

<table>
<thead>
<tr>
<th>% of total scientific publications that are highly cited (within the top 10% most-cited) in other publications worldwide (2014)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Romania</td>
</tr>
<tr>
<td>3.96%</td>
</tr>
</tbody>
</table>

KEY CHALLENGE ➤ ATTRACTIVENESS FOR BUSINESS R&D

The business sector lacks interest in developing R&D activities in Romania.

Business enterprise researchers (FTE) per thousand labour force (2015)

<table>
<thead>
<tr>
<th>Romania</th>
<th>EU average</th>
<th>Highest</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.45 FTE</td>
<td>3.73 FTE</td>
<td>9.33 FTE</td>
</tr>
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</table>

RECOMMENDATIONS ➤ ROOM FOR IMPROVEMENT

- **Focus on better governance of the R&I system and secure resources for the years to come.**
- **Use ‘smart specialisation’ approach to build up public research capacities and raise economic competitiveness, securing high-quality jobs in the middle- to long-term.**
- **Better support for academia-business partnerships and knowledge-sharing.**

H2020 POLICY SUPPORT FACILITY ACTIVITIES

- **Received Specific Support on Improving Innovative Entrepreneurship Ecosystem.**
- **Participated in Mutual Learning Exercises on:**
  - Ex-post Evaluation of Business R&I Grant Schemes
  - Alignment and Interoperability of National Research Programmes