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# R&D Experiences in Turkey from a Researcher's Perspective

**M.Özgür Seydibeyoğlu,  
Researcher on Nanopolymers,  
Istanbul Technical University,  
ISTANBUL, TURKEY**

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# Outline

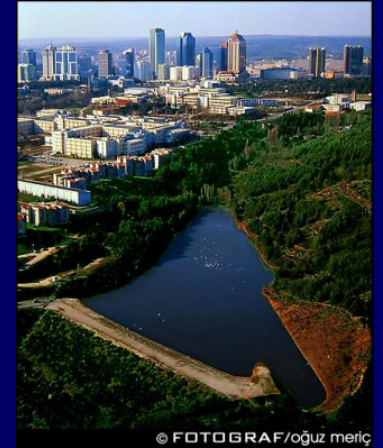
- R&D experiences in 3 different areas
    - Universities, Industry and Technoparks
  - The observations and comparison  
Turkey with Europe
  - Final Comments
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# R&D in Turkish Universities

□ Istanbul Technical University



□ Middle East Technical University



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# R&D in European Universities

- Norwegian University of Science and Technology, Trondheim, Norway
  - University of Twente, Enschede, Netherlands
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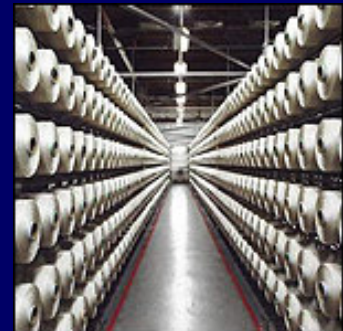


# Differences in Research Methodology and Opportunities

- Planning
  - Cooperation
  - Sharing of Knowledge
  - Motivation
  - Curiosity
  - Feeling the value of Ph.D
  - The living standards
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# R&D in Turkish Industry

- R&D Engineer at TTM Co, Ankara, Turkey
- Consultant at Flokser Co, Istanbul, Turkey
- KORDSA, Joint Project for Master Thesis





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# Being Technology Leader

- KORDSA Case
    - Technology exporting company
  - Arçelik Case
    - Being patent leader in TURKEY
  - Vestel Case
    - Basic Research on Fuel Cell Technology
  - Tofaş
    - Joint Research with different universities in Turkey and abroad.
  - Some Small Companies
    - SME's
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# Comparison with EU

- More research oriented people needed
    - Questioning the reasons
  - More patience from the industry
    - 17 year R&D period in DuPont
      - Nylon
      - Nafion
  - More funding to the universities
    - IBM and Stanford University
  - Closer relations with the universities
    - Joint projects like in EU
  - Giving importance new ideas and new companies
    - Giving funding to new ideas
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# Startups and Technoparks

- The design of technoparks



- Funding opportunities very limited
  - Very very limited venture capital
  - No integration
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# Discussion

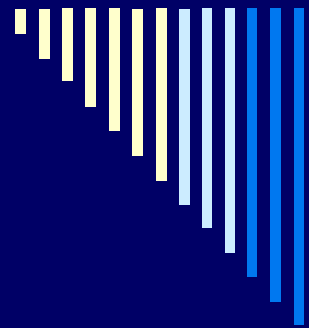
- Being well educated
  - Giving priority to knowledge and technology
  - Being more curious
  - Standards of living
  - Good planning
  - Industry leading R&D
  - Collaborations
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# Final Comments

- Closer relations with EU
  - Giving priority to education
  - Giving importance to research
  - More R&D spending from the Industry
  - Governmental Policies
    - Initiatives, Funding
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# Polymer Nanocomposites from Soil 😊

