

# **PULP AND PAPER INSTITUTE, LJUBLJANA SLOVENIA**



**Alenka Ivanuš Prof.Biol.  
Ecology Dpt. – Microbiology  
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# REPUBLIC OF SLOVENIA



🌿 Area: 20.253 km<sup>2</sup>

🌿 Population: 2 million

• Paper consumption: 149 kg/capita

• Paper collection rate: 54 %



# PULP, PAPER AND PAPER CONVERTING INDUSTRY IN SLOVENIA

👉 400 years of tradition

👉 present situation:

8 paper mills in operation with the following total production:

paper and board (650.000 t/year)

43% writing/printing paper

30% board

13% newsprint

12% tissue

2% packaging paper



# PULP AND PAPER INSTITUTE

- ✎ **Established in 1947 as a federal institution to promote research and development in Yugoslav pulp and paper industry**
- ✎ **From 1991 it has remained Slovenian institution and is owned by the Chamber of Commerce and Industry**
- ✎ **The number of employees is 32 (12 researchers, technicians and other staff)**
- ✎ **Number of employees in the branch 5200**



# FINANCIAL SOURCES

☞ Pulp and Paper Industry

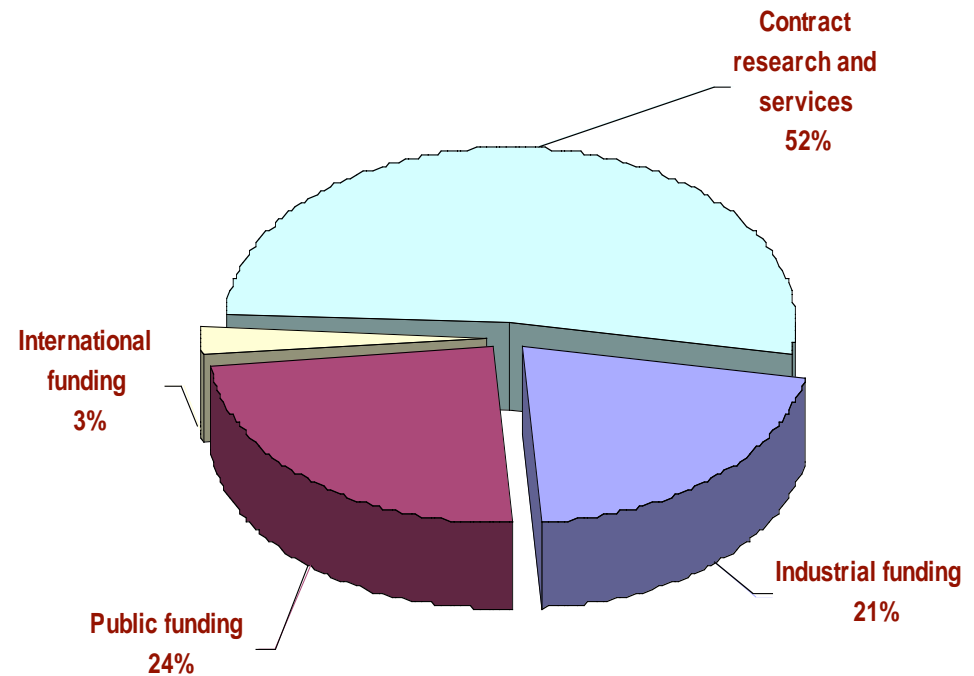
☞ Ministry of Science and Technology

☞ Chemical Industry

☞ Pilot plant trials

☞ EU

☞ Other sources



# DEPARTMENTS

- ☞ **Department of papermaking technology**
- ☞ **Department of ecology**
- ☞ **Pilot plant (paper machine, coating machine, pulping, bleaching)**
- ☞ **Testing laboratory (mechanical, chemical, biological analysis of fibers, additives, paper/board, process and waste waters, solid wastes, sludges)**



# SERVICES

## ☞ ROUTINE BASE STOCK QUALITY CONTROL:

- Fibre quality control
- Fillers and pigments quality control
- Auxiliary papermaking agents quality control

## ☞ ROUTINE PRODUCTS CONTROL:

- Physical testing
- Mechanical testing
- Determination of optical qualities
- Determination of printability



# CONSULTING

- ☛ **Technological processes of paper, board and cardboard making**
- ☛ **Microbiological problems: pulp and paper industry, chemical industry (coatings, plasters, colours)**
- ☛ **Introduction of quality system standards (SIST ISO 9000, SIST ISO 14000, EN 45000 and IPPC)**
- ☛ **Quality certificates: paper, board and cardboard**
- ☛ **Paper, board and cardboard productions**
- ☛ **Special packaging for foodstuffs**



# WASTEWATER AND SOLID WASTES MONITORING

☞ **Pulp and paper industry**

☞ **Wood converting**

☞ **Graphics**

☞ **Food industry**

☞ **Motor vehicles servicing**

☞ **Metal industry**

☞ **Textile industry**

☞ **Municipal**



# PROJECTS

☞ **Applicational research project**

**PULP AND PAPER PRODUCTION IN CLOSED WATER SYSTEM**

**RATIONAL USE OF WOOD IN A CONTEXT OF SUSTAINABLE FOREST  
MANAGEMENT**

☞ **Contract research projects: paper ageing mechanisms, paper curling,  
digital printing technology, microbial contamination of papers...)**

☞ **Participation in international projects: COST E32, 36, 41, 46, 48, 54**



