

# Teollinen Ekologia Osana Kestävää Kehitystä

Jouni Korhonen





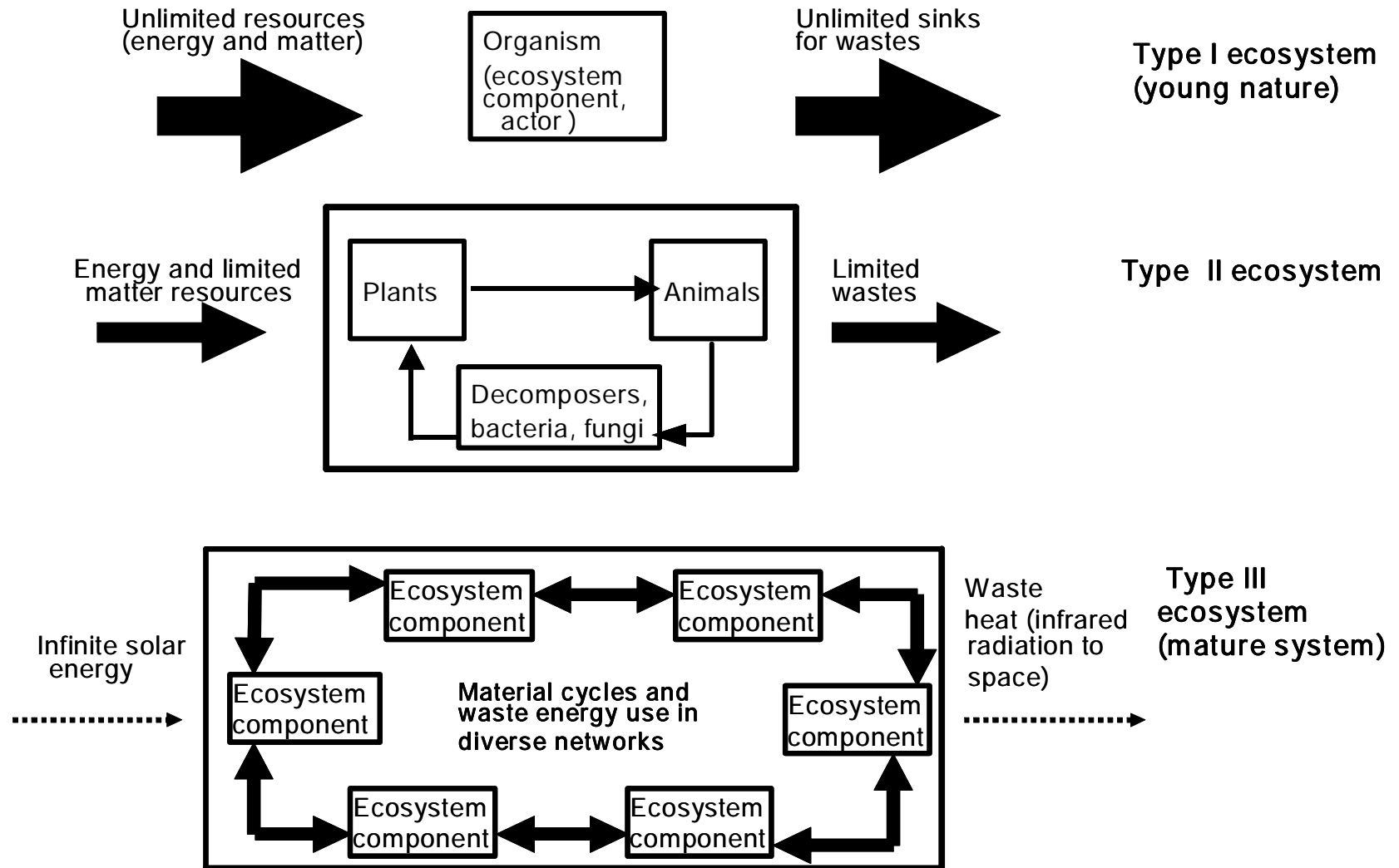
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# Sisältö

- Teollisen Ekologian käsitteestä
- Käsitteen saamasta huomiosta kestäväen kehityksen työssä

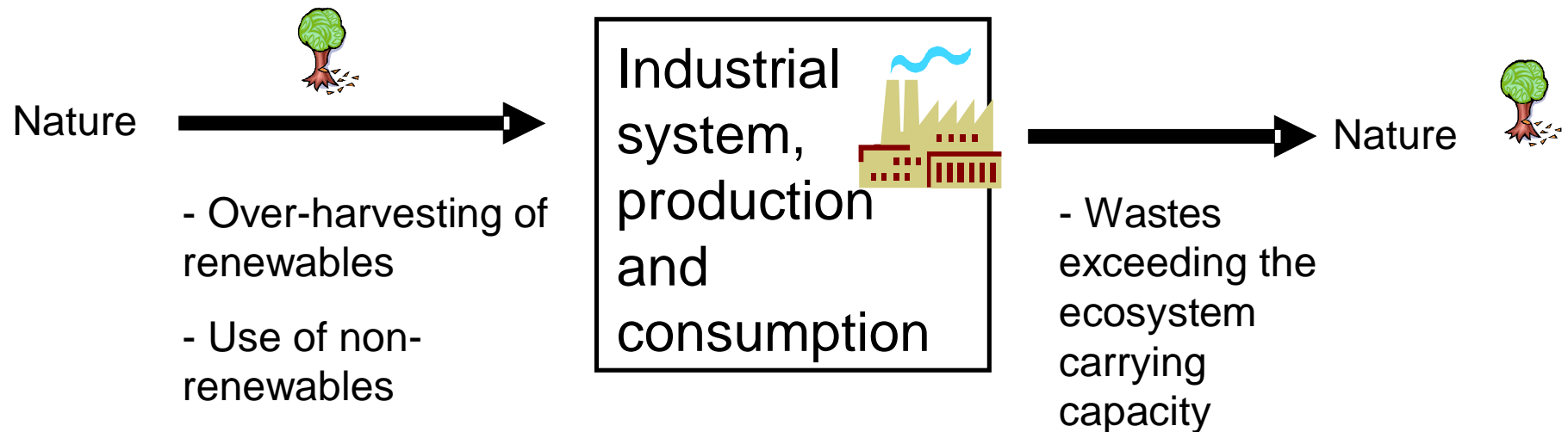
# Ecosystem evolution and development over time





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# Flows of matter in industrial systems

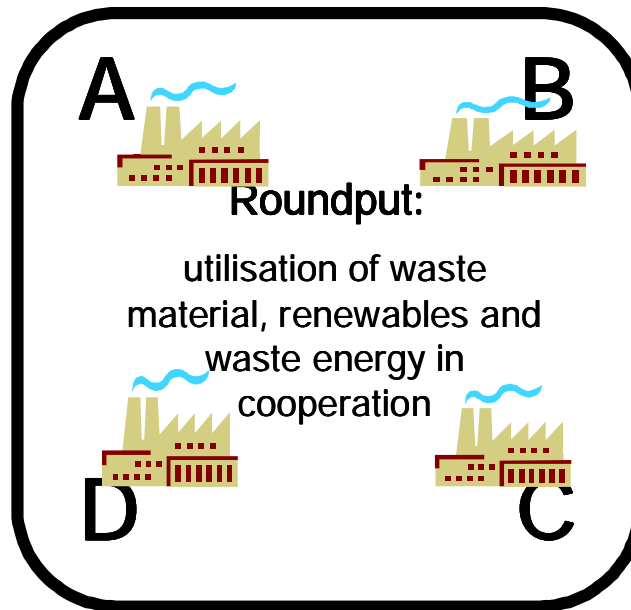


# INDUSTRIAL ECOSYSTEM VISION and OVERALL GOAL

**Environmental WIN**  
- Reducing the virgin material and energy input (substituted with wastes)

**INPUT** →

**Economic WIN**  
- Reducing raw material and energy costs  
- Reducing costs from environmental legislation  
- Image and green markets potential



**Social WIN**  
- New employment opportunities through local utilisation management of the material and energy flows  
- Increased cooperation and participation

**Environmental WIN**  
- Reducing waste and emission output (waste is used as a resource)

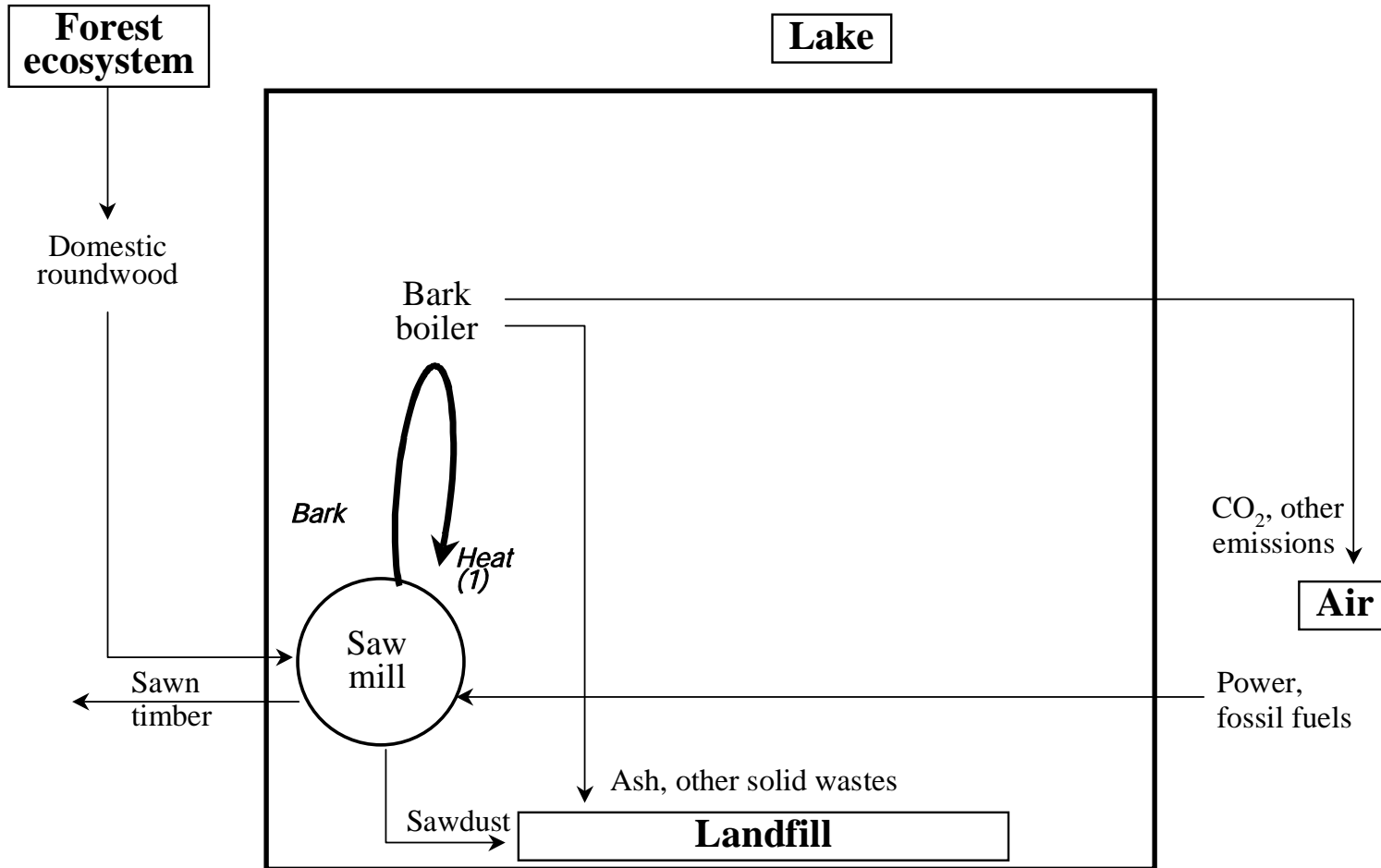
→ **OUTPUT**

**Economic WIN**  
- Reducing waste management costs  
- Reducing costs from environmental legislation  
- Image and green markets potential

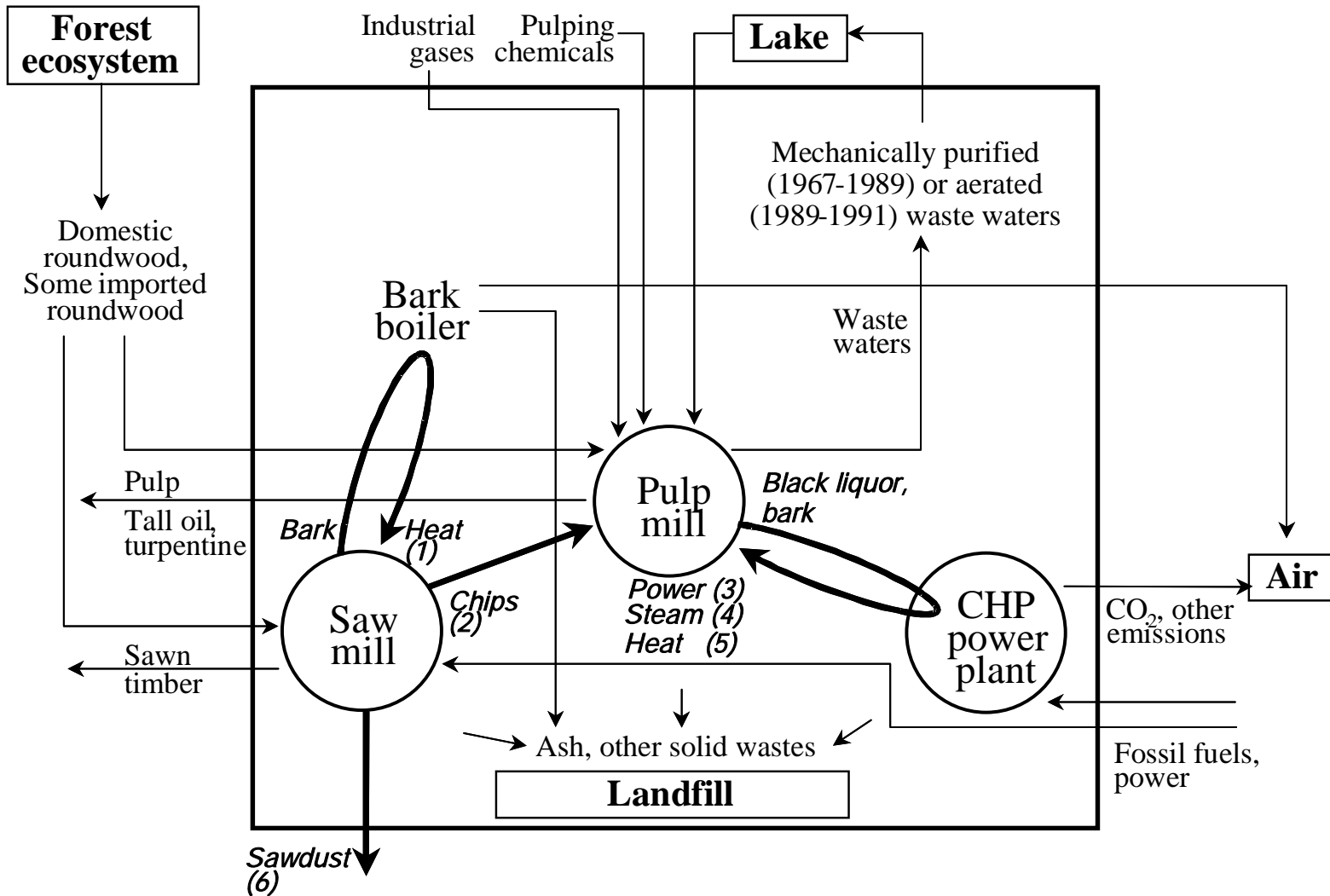


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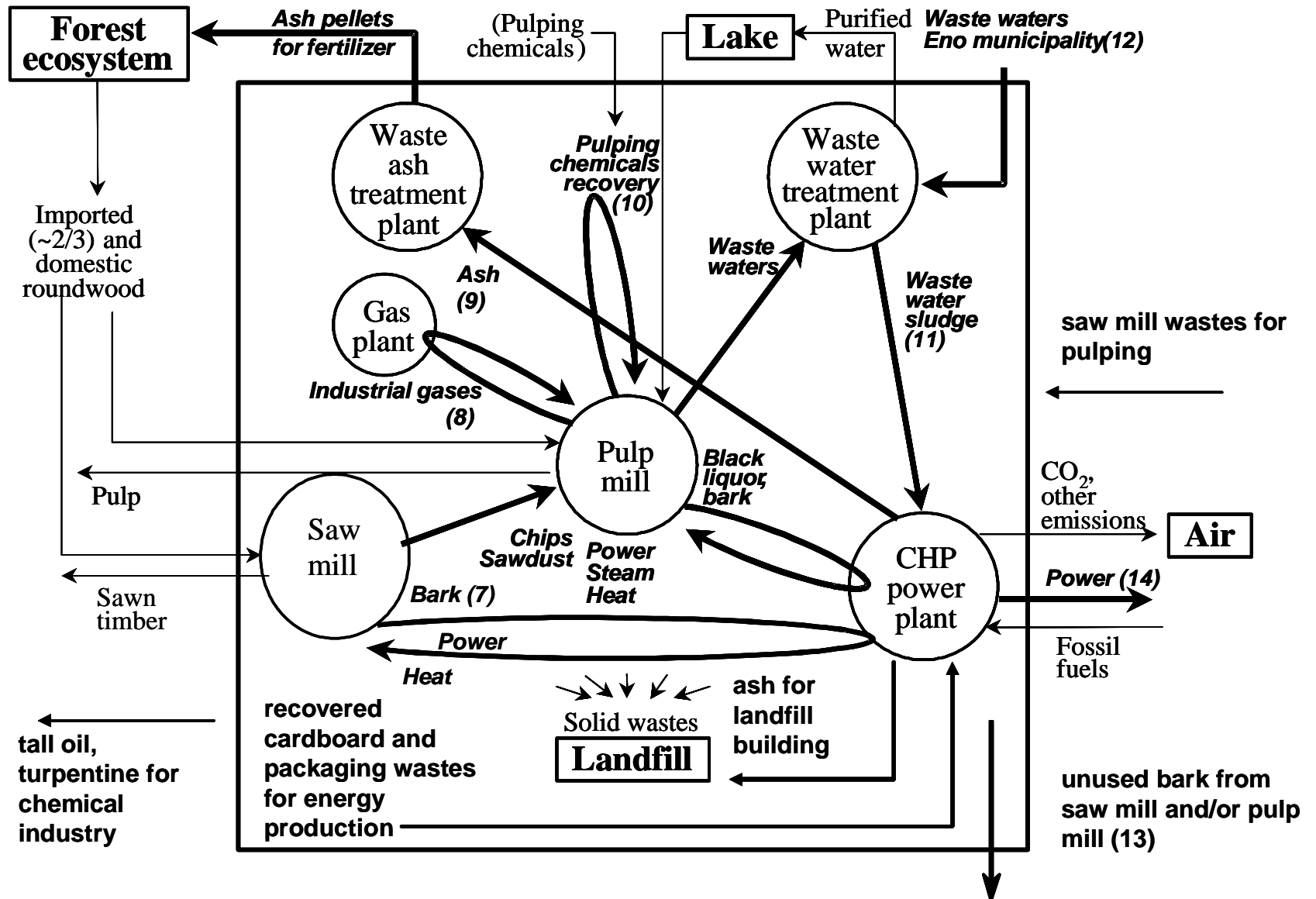
## Uimaharju 1955-1966 "Type I"



## Uimaharju 1967-1992 "Type II"

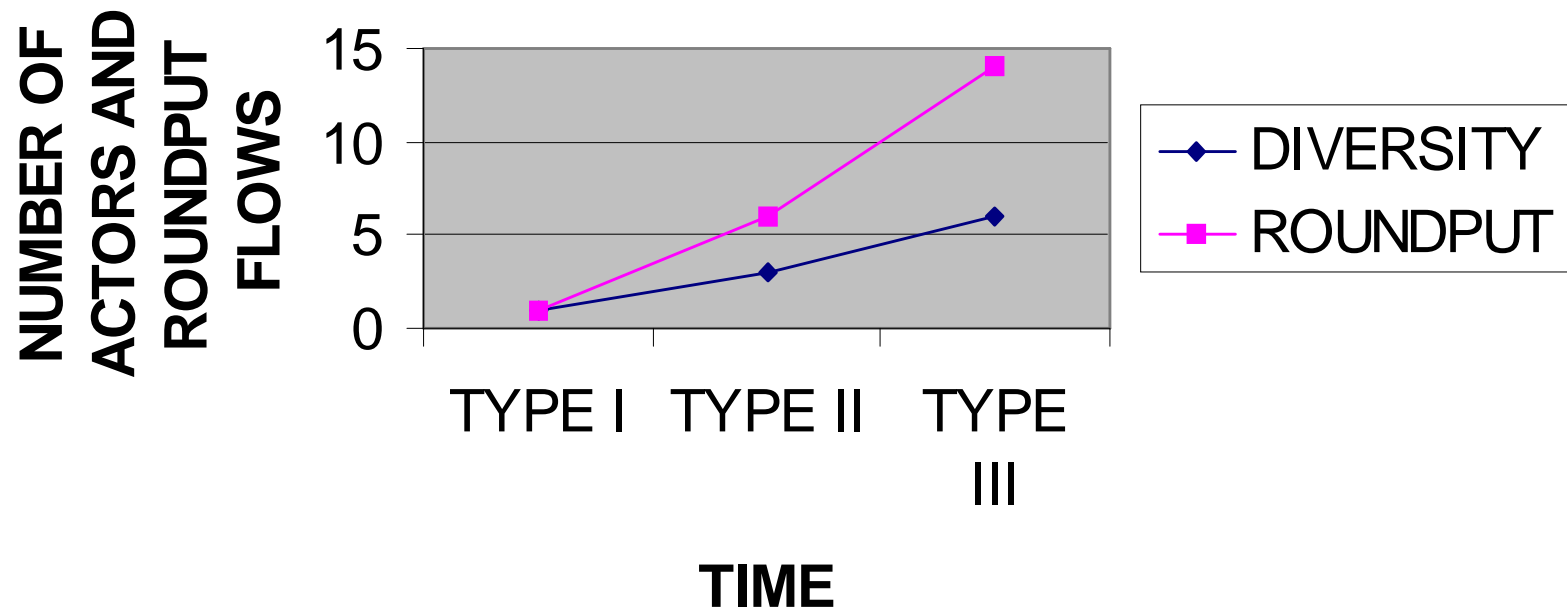


# Uimaharju 1992 - 2003 "Type III"





# NUMBER OF ACTORS (DIVERSITY) AND NUMBER OF ROUNDPUT FLOWS IN THE UIMAHARJU INDUSTRIAL ECOSYSTEM





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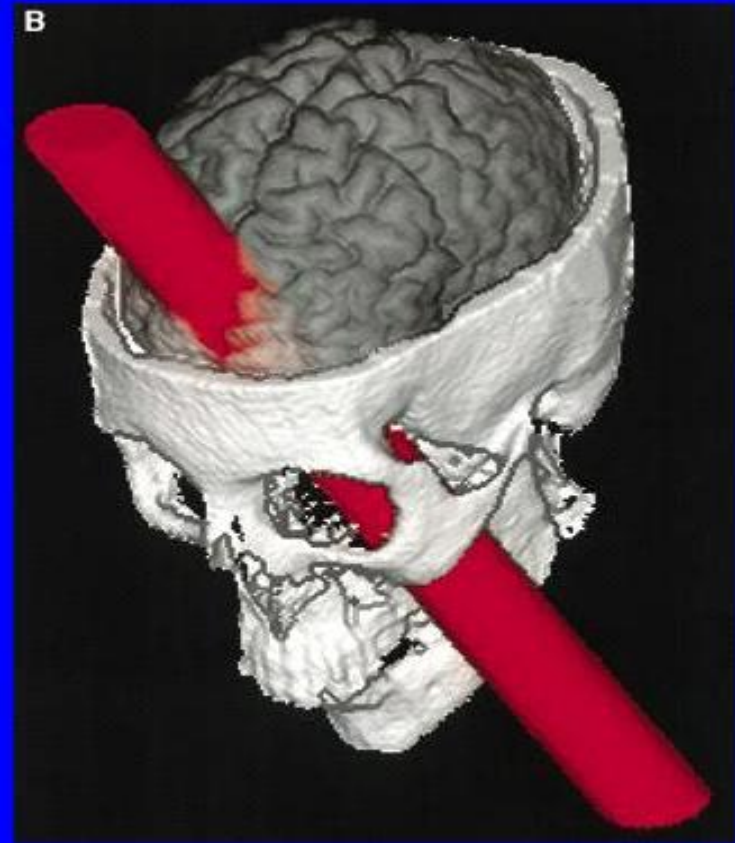
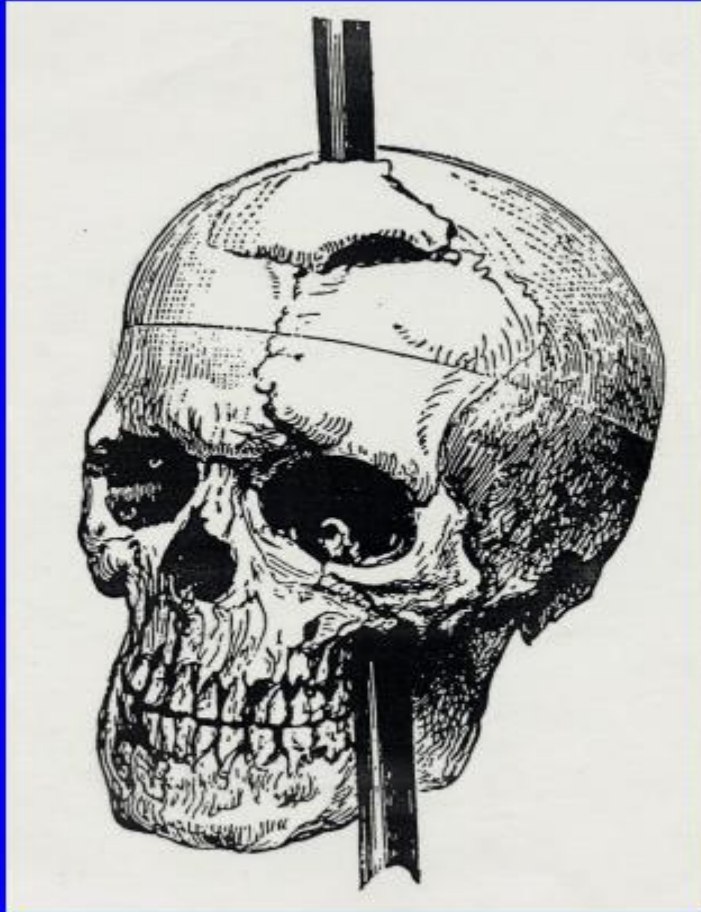
# 11th Annual International Sustainable Development Conference

Finlandia Hall, 6-8. June, 2005  
see the conference website:

[www.erpenvironment.org](http://www.erpenvironment.org)



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Phineas Gage