

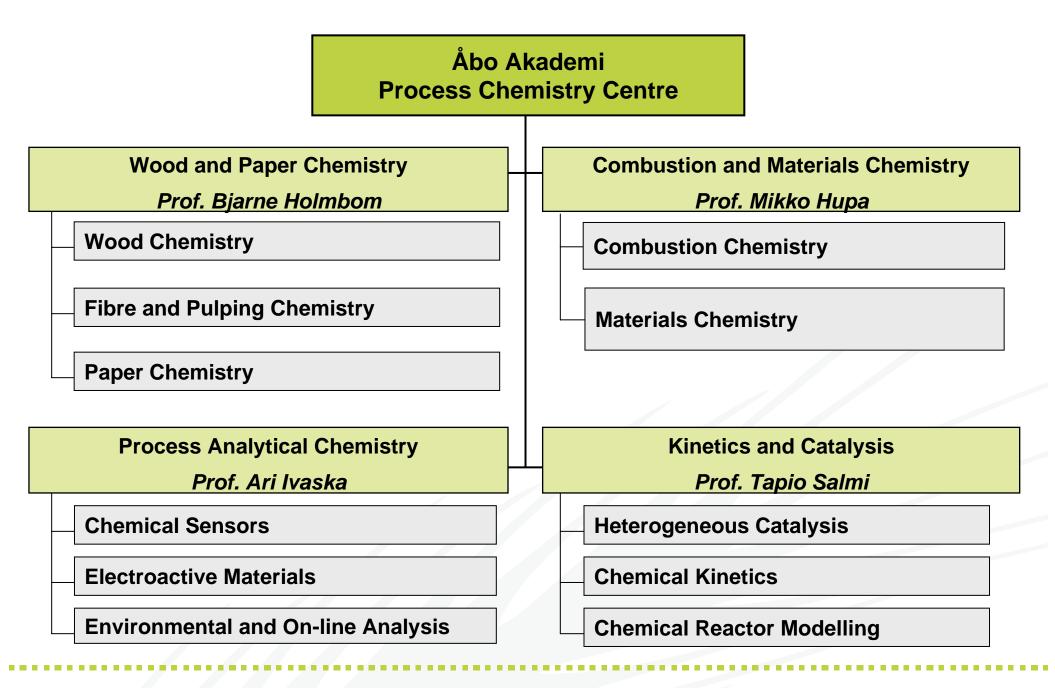


1. Introduction

Mikko Hupa

Chemistry & Biofuels - Universidad Carlos III de Madrid 2008 - M Hupa

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Senior researchers 4 + 30

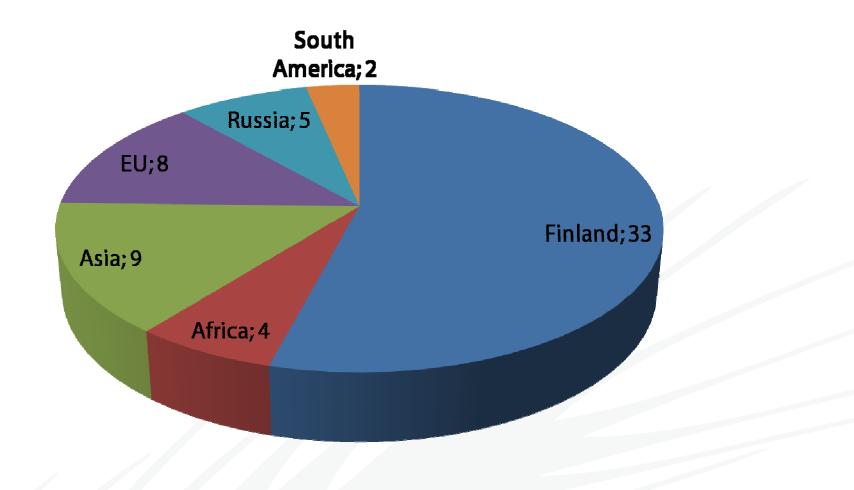
Senior researchers 4 + 30 **Doctoral thesis works**

50

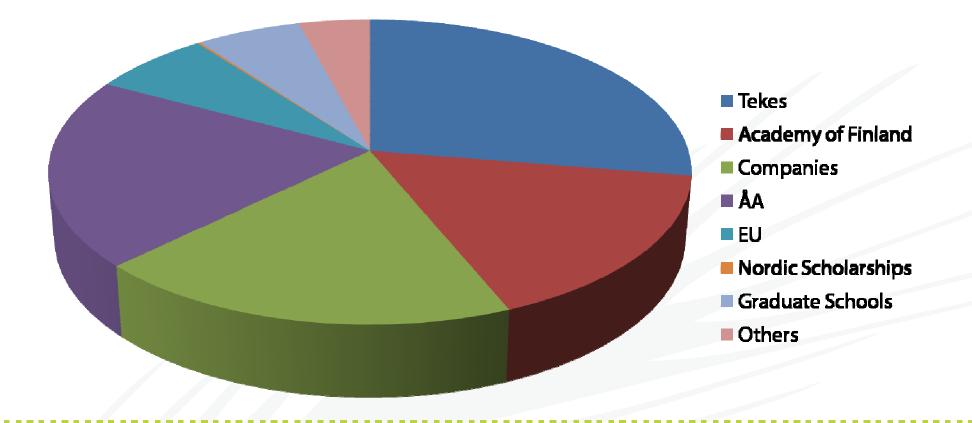
Senior researchers4 + 30Doctoral thesis works50MSc thesis works20

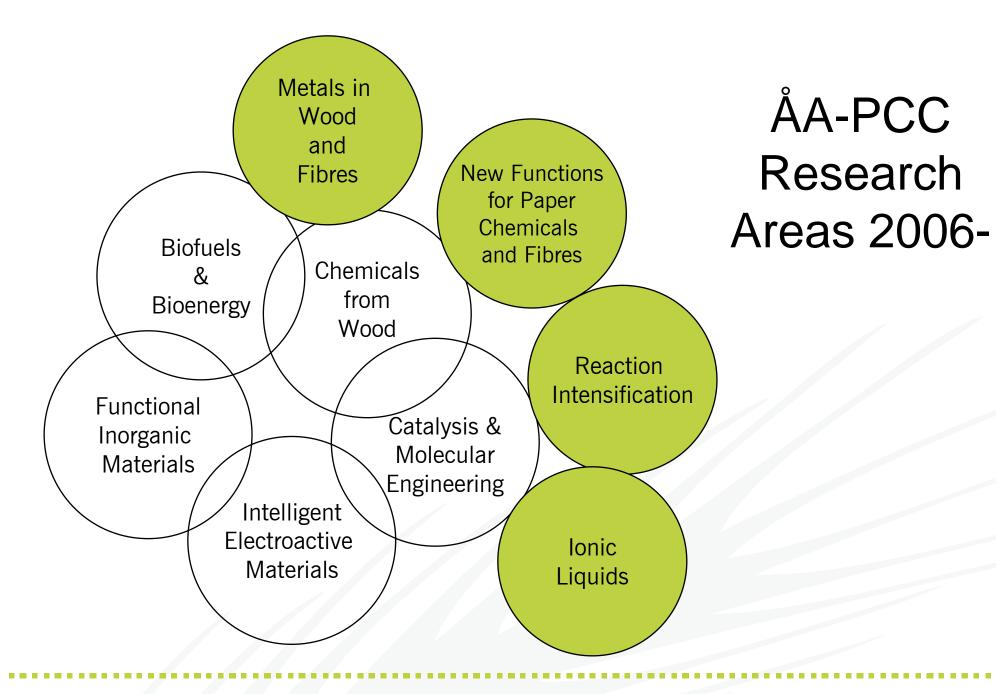
Support and visitors20Total participation 2009130

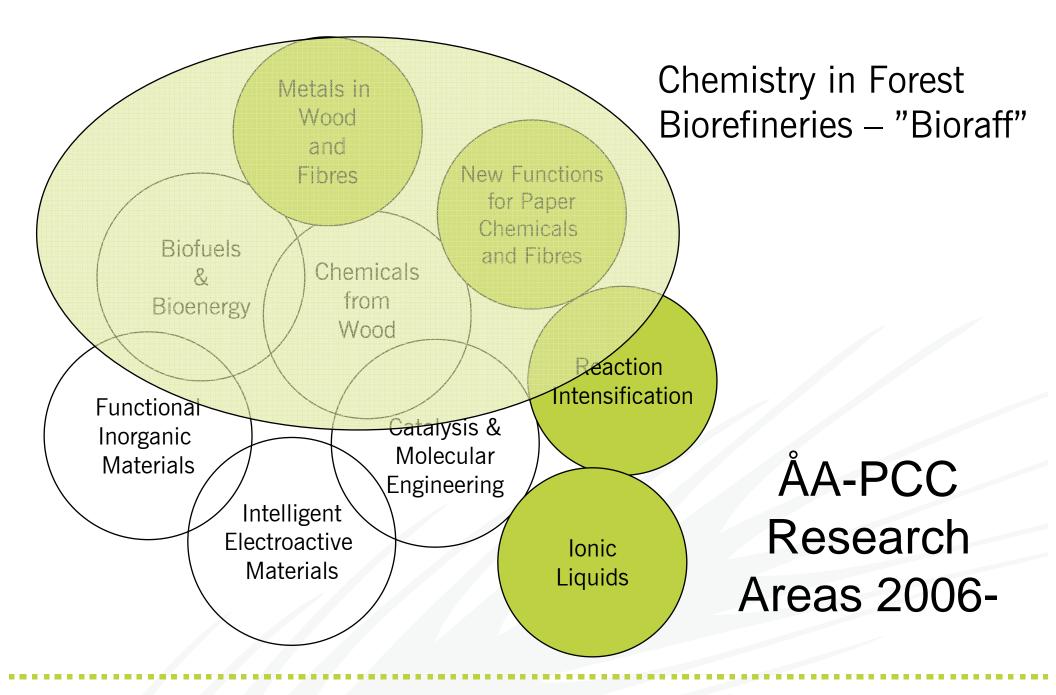
Doctoral Students by Origin 2009

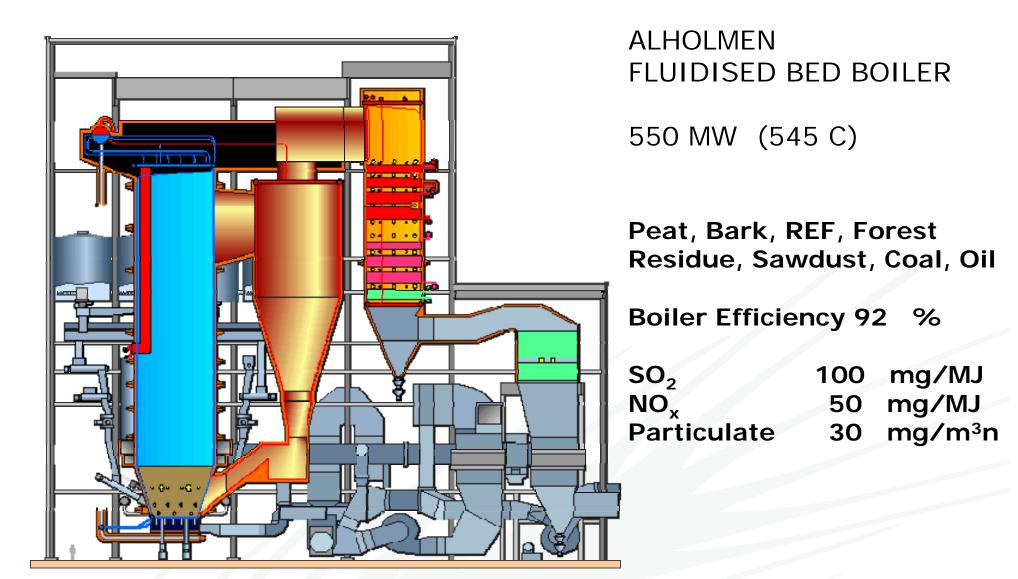


Funding 2008 (Total 6.1 M €)



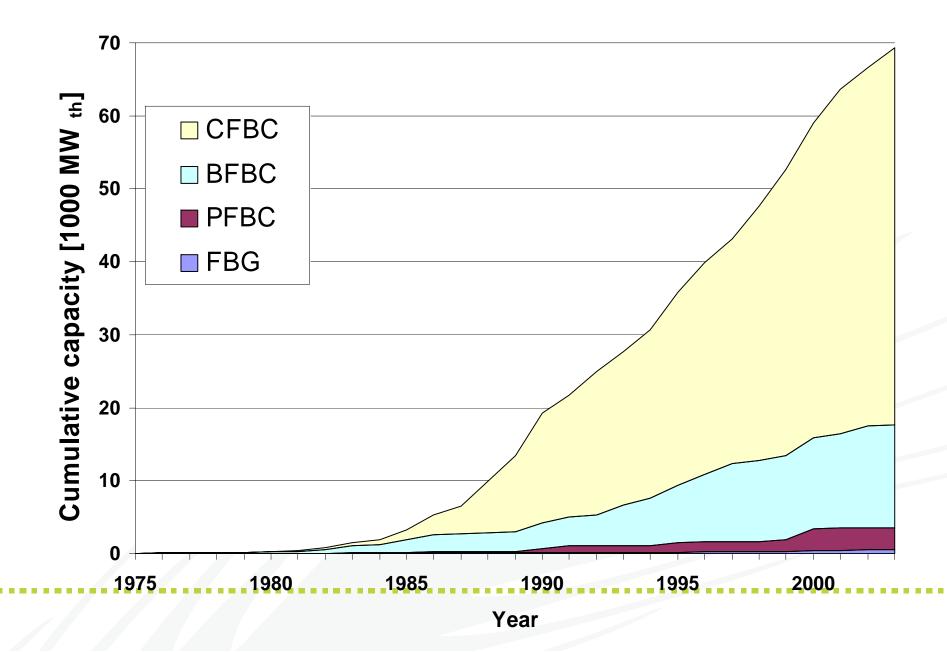






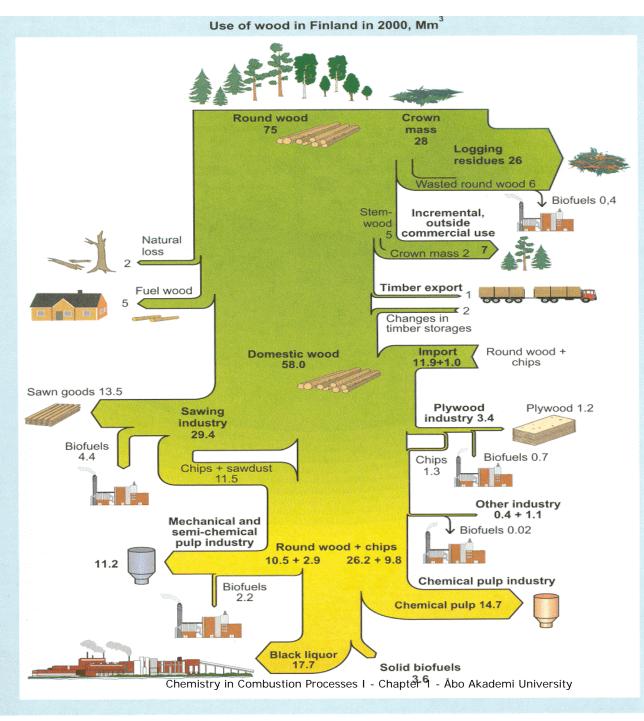
Kvaerner Power Oy - 2001

Capacity of FBC Boilers World-wide 2003

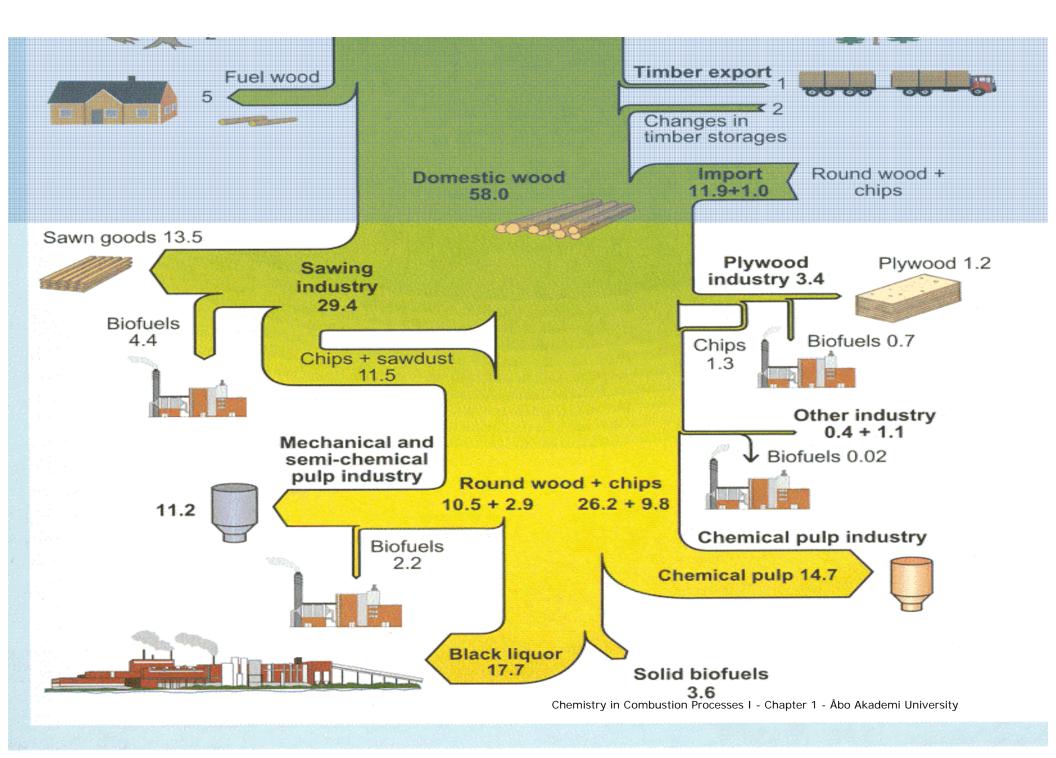


Use of Wood in Finland

(VTT 2000)



The use of wood in Finland.



Future

Challenges

- New fuels
 - Waste derived
 - Biofuels
 - Fuel mixtures
- Increase of efficency
 - Higher steam values
 - Corrosion
 - Slagging and fouling
- Fundamental understanding
- More chemistry