中国林业科学研究院

International Conference on China-CEECs

Forestry Research and Education Cooperation

Beijing China

October 29-31, 2017

Forestry Innovation:

Innovation in forestry sector: choosing the path of development.

Piotr Paschalis-Jakubowicz

Warsaw University of Life Sciences (SGGW)
Faculty of Forestry. Department of Forest Utilization

As an introduction

30 years ago, foresters were almost exclusively foresters...

30 years ago, the forest was the domain of foresters...

Forests and forestry in a changing environment: climate, bio-economy, bioenergy, ageing societies, disturbances etc.

Before that was good and now it is unacceptable...?

Are we talking about innovation in the forestry sector ...???

Does it mean that we are starting a discussion on priorities in forestry ...?



Promoting a "golden thread" of forests and energy

For millions of people, wood fuel production and trade is a major economic activity.

Using wood pellets to generate low-carbon electricity is a flawed policy that is speeding up not slowing down climate warming.

A new study says that emission from wood pellets are higher than coal.

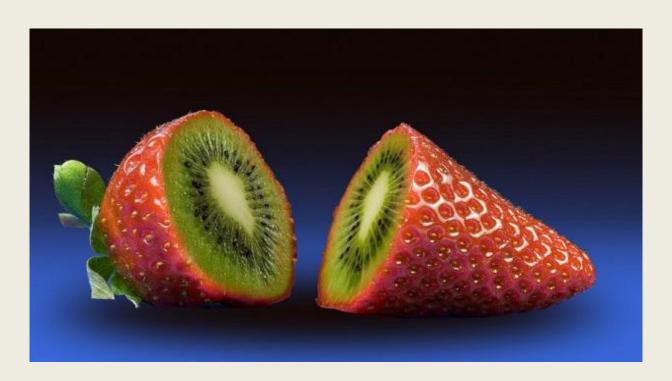




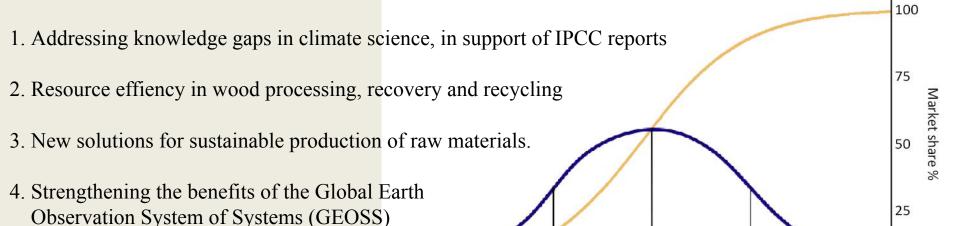
Over a billion euro can be saved in the Swedish forest industry each year if the transport of felled timber from the forest to the final customer is made more efficient.



Non-wood forest products in international statistical systems !!!



Knowledge gaps



Early

13.5 %

Adopters

Innovators

2.5 %

Early

34 %

Majority

Late

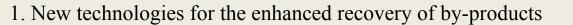
34 %

Majority

Laggards

16 %

Raw materials



- 2. Raw materials innovation for the circular economy
- 3. Sustainable processing and refining of primary and/or secondary raw materials
- 4. Recycling of raw materials from end-of-life products

An urgent research and Innovation actions in Bioeconomy

"Building a low-carbon", climate resilient future: climate action in support of the Paris Agreement

Supporting the development of climate policies to deliver on the Paris Agreement, through Integrated Assessment Models (IAMs)

Actions assessing activities "Greening the economy in line with the Sustainable Development Goals (SDGs),



Connecting economic and environmental gains –the circular economy

Innovative financing option and markets for forests environmental services

Invest in the establishment of new forested areas for their carbon benefits, and in reduced deforestation for reduced carbon emissions

Forest Sector Innovations for a Greener Future and Bioeconomy

How can innovative forest sector based environmental and social approaches assure a greener future for our global society?

How will fiber and forests be used in the near- and long-term (focus on bioenergy, biomaterials, biofuels, biochemicals, carbon and non-timber forest products)?

Innovations in Forest Management, Policy and Markets.

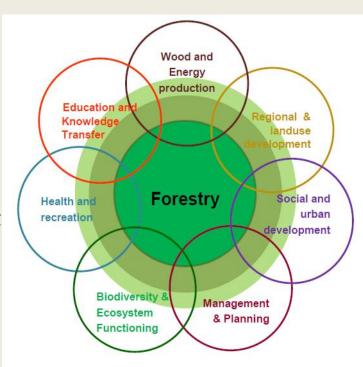
Will there be enough biomass and sustainable products to support the growing global population?

Innovations in Wood Building and Design:

What will the next generation's needs for shelter and buildings be and how will they be met?

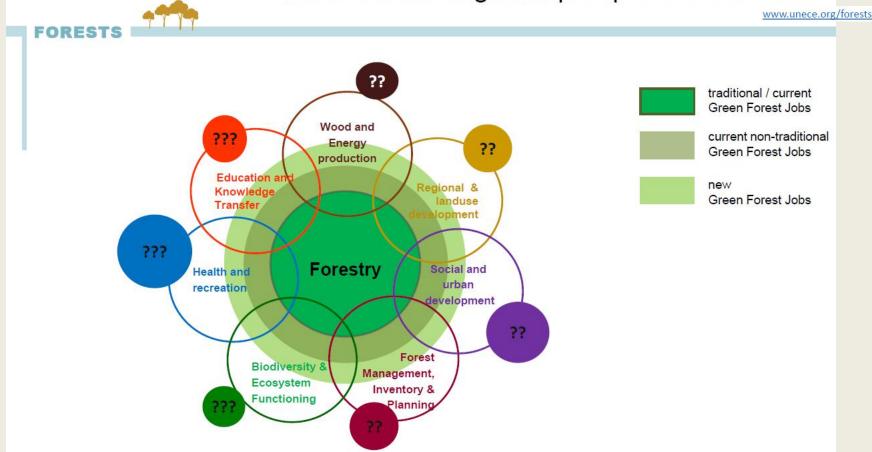
Innovations in Business Models and Management

What will the businesses of forestry look like in the near and long-term?



Specific potential of GFJ's

National and regional perspectives needed



nothing is more empowering than having a job !!!

The EU Framework Programme for Research and Innovation



BIOECONOMY

HORIZON 2020



The visionary aspects and exploratory characteristics of Bioeconomy might make it sound like a kind of magic, but the mission of Bioeconomy is actually very concrete: to turn our excellent science base into a competitive advantage.



To focus development of the bioeconomy from the base

in biovillages and biocities.

Thank You for your attention