



# Green Forest Jobs: Facing challenges, exploring opportunities and increasing the capacity

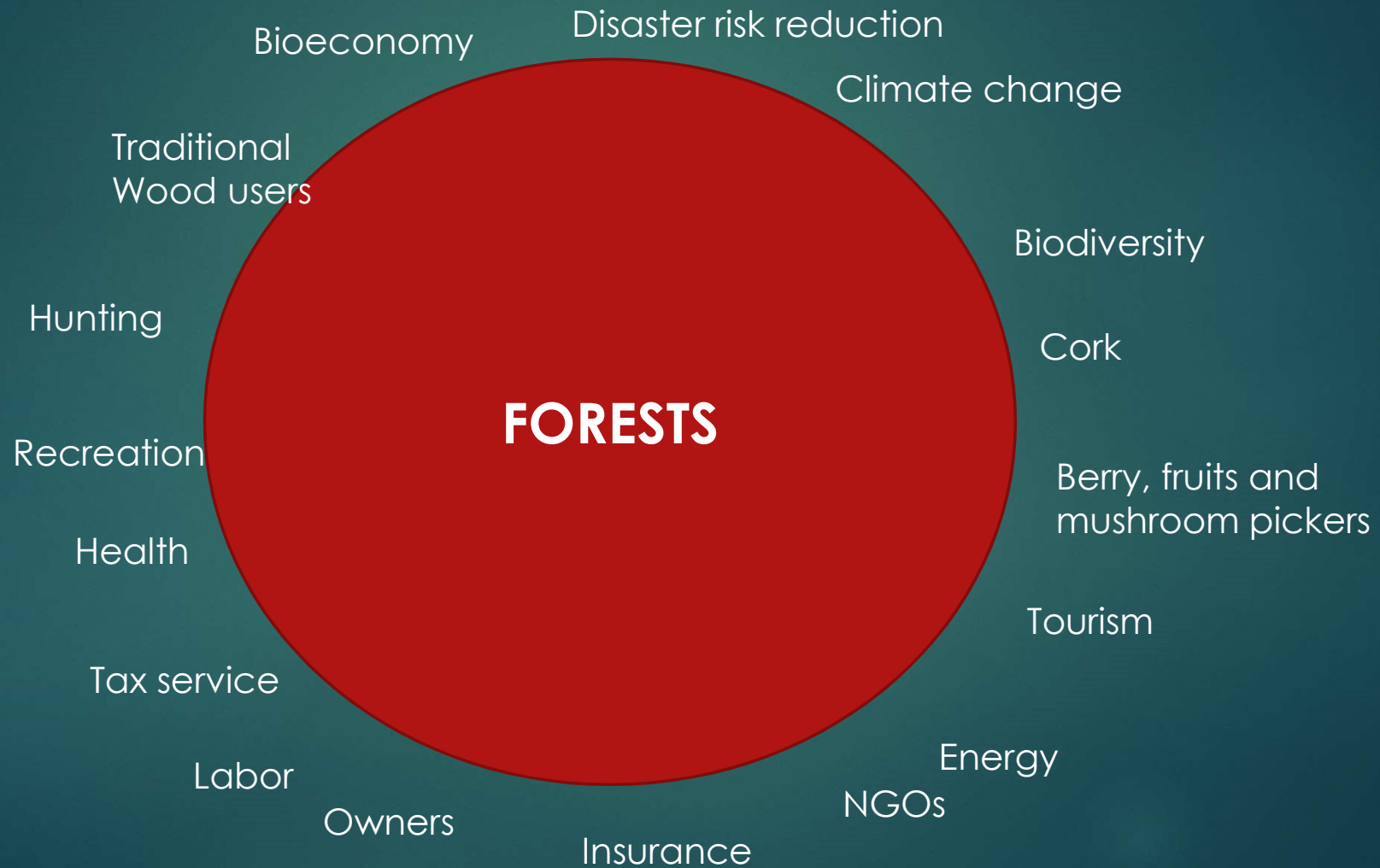
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EDUARDO ROJAS BRIALES, UPV, COIM

# Index

- ▶ Green jobs in the forest sector
- ▶ 3 recent forest employment publications
  - ASEMFO
  - ASPAPEL
  - Sirgado/UPV
- ▶ Conclusions

# Is forestry a sector?



# Green jobs and the forest sector

- ▶ How to define green jobs?
- ▶ Everything in forestry are green jobs?
- ▶ Unbalance in forest information systems between biophysical and socioeconomic parameters including budget
  
- ▶ 3 main sources:
  - Spain: X Study on forest investment and employment (ASEMFO, 2017)
  - Spain: Pulp & Paper (ASPAPPEL, 2018)
  - Valencian region study (Sirgado/UPV, 2018)

# ASEMFO 2017

- ▶ ENFE
- ▶ 10<sup>th</sup> study, figures of 2015/16, Spain
- ▶ Strong oriented to public investments and its distribution (spatial, thematic, contracted/executed)
- ▶ 851 M € public investment incl. grants (Chapters 2, 6 and 7, not 1)
- ▶ Fire fighting
- ▶ 31 €/ha/a (1/3 Rural development EU, Spain, regions co-funded)
- ▶ 10% grants for 72% area (private)
- ▶ 90% public investments: 64% directly executed mostly by public companies, 34% contracted
- ▶ Total jobs in forestry, wood, NWFP 1<sup>st</sup> and 2<sup>nd</sup> processing: from 11% (1997) to 6% (2016)  
Spanish jobs, 1 Mio jobs, stable since 2011: resilience to crisis
- ▶ Forestry: 67.000 jobs (0,4% Spanish jobs): 2% technical staff, 40% trained workers, unskilled labor (58%)

# ASPAPPEL 2018

## Main facts:

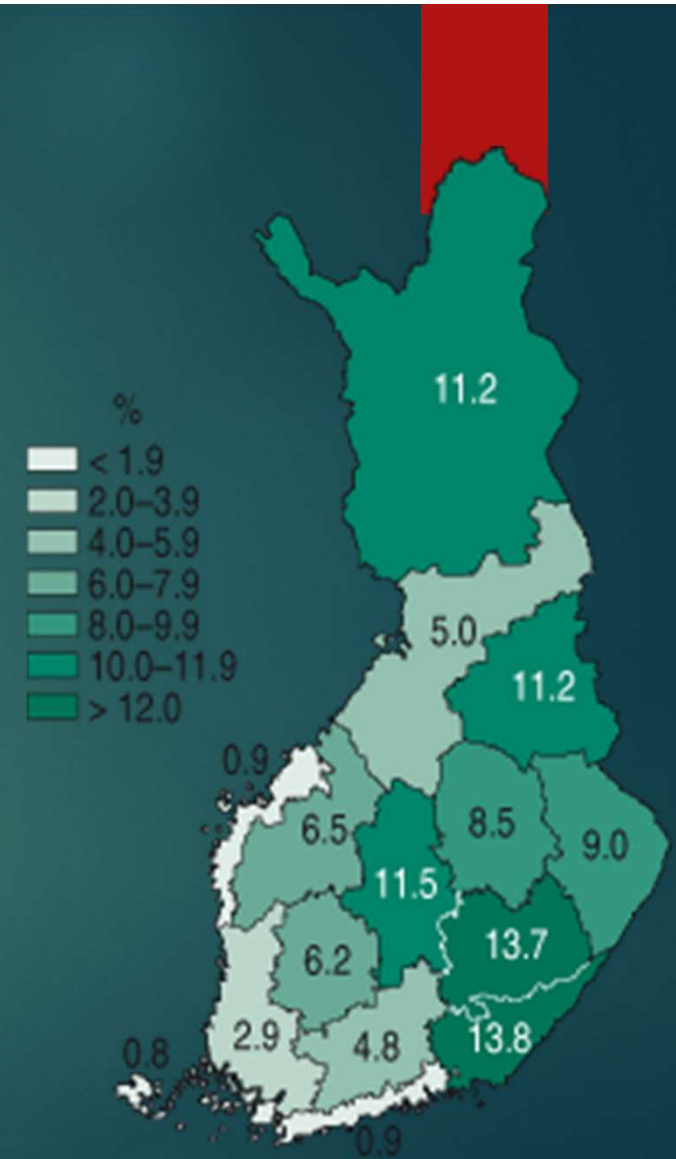
- ▶ CEPI
- ▶ Spain
- ▶ Multiplier effect: 1 Mio value added 2,2 Mio value added to GDP, 43,3 jobs, 0,9 M € public income
- ▶ 369.000 jobs (50% direct, 50% indirect and induced): 18,5% industrial employment, 2% of total Spanish employment
- ▶ Employment quality: 82% long term contracts, 17% management and technical staff, 9% higher salaries than average
- ▶ 4,5% contribution to GDP (incl. indirect and induced), 9% of public income
- ▶ Not included solid and mechanical wood chain and NWFP chain

# Sirgado/UPV 2018

- ▶ Valencian region: 10% population and GDP, 4,5% area
- ▶ Mixed methodology: public statistics and direct surveys
- ▶ Forestry, 1<sup>st</sup> and 2<sup>nd</sup> processing
- ▶ Consultancies: border of forestry
- ▶ 5.500 companies, 211 NGOs including associations
- ▶ 30.400 jobs (1,5% jobs, 2,6% agriculture)
- ▶ 5% public, 95% private
- ▶ Primary (11%):  $\frac{3}{4}$  forest contractors,  $\frac{1}{4}$  public forest owners
- ▶ Industry (68%): 42% furniture, 33% pult&paper, 16% carpentry and building
- ▶ Services (21%): very disperse

# Conclusions

- ▶ Poor data even in developed countries
- ▶ Poor mapping of the contribution of forestry in disadvantaged areas
- ▶ Multiplier effect
- ▶ Forest employment observatory





# Sources

▶ ASEMFO:

[http://www.asemfo.org/empresas/asemfo/X\\_estudio\\_DEF\\_web.pdf](http://www.asemfo.org/empresas/asemfo/X_estudio_DEF_web.pdf)

▶ ASPAPEL

<http://www.aspapel.es/content/importancia-socioeconomica-de-la-cadena-del-papel-celulosa-papel-y-carton>

▶ Sirgado/UPV:

<https://riunet.upv.es/handle/10251/109096>



**Thanks for your attention!**