

FORest MAnagement Scenarios for Adaptation and Mitigation (FORMASAM)

C. Reyer, Grenoble, 26-03-2019

EFI THEMES ADDRESSED: BIOECONOMY AND RESILIENCE





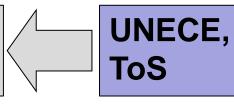
Aim of FORMASAM

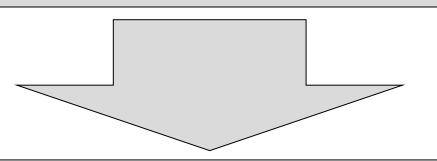
- to develop future forest management scenarios for adaptation and mitigation of climate change that
 - are consistent from stand → landscape → continental level,
 - allow to explore options for climate change mitigation and adaptation at the backdrop of a European bio-economy and changing climatic conditions.



FORMASAM Structure

TG1: Future Forest Management Scenarios (Lead MJ Schelhaas)

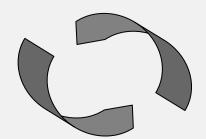






Forest management models at:

TG2: stand scale (Lead A Mäkelä)

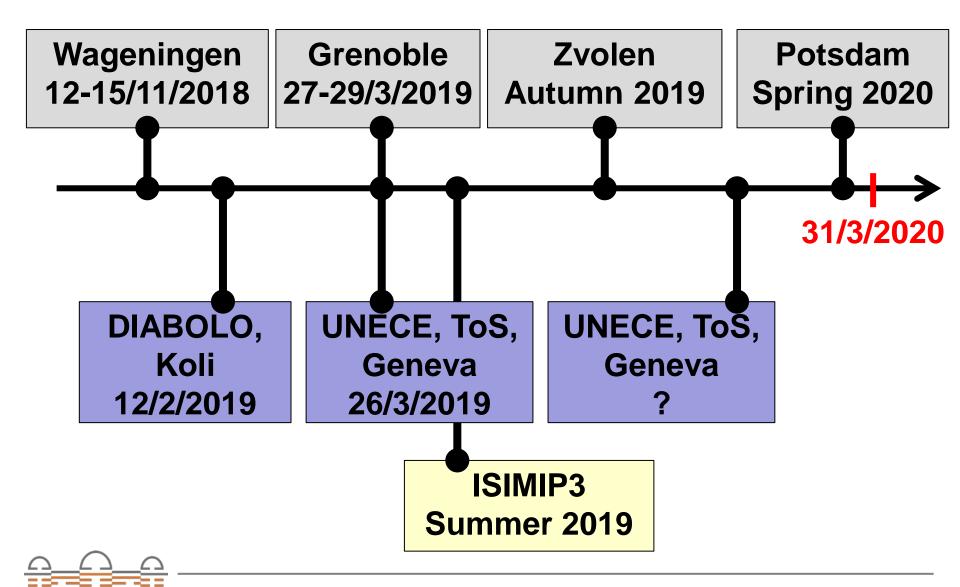


TG4: European scale (Lead A Rammig)

TG3: landscape scale (Lead R Seidl)



Timeline FORMASAM and related activities



Goal of this meeting

- Consolidate and finalise management scenarios as well as modelling protocol to simulate future forest development
 - For stand, landscape and EU models?
 - Status of simulation set-up?
- Storylines for management scenarios?
 Adaptation/disturbances management scenarios?



Scenario framework



Shared Socioeconomic Pathways (SSPs)

SSP5: Conventional dev.

Rapid technology for fossil

High demand

High ec. Growth

Low population

SSP2:

Middle of the Road

SSP3: Fragmentation

Slow technology

Development (dev-ing)

Reduced trade

V. Slow ec. growth

Very high population

SSP1:Sustainability

Rapid technology

High environmental

Awareness

Low energy demand

Medium-high economic growth

Low population

SSP4: Inequality

Slow technology High inequality

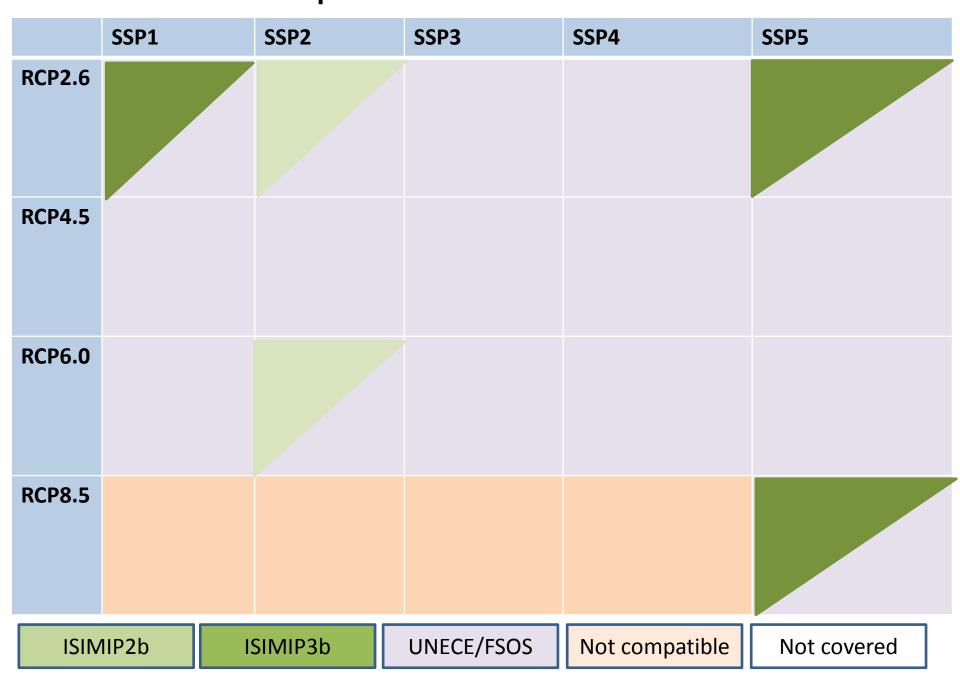
Low energy demand Slow economic growth

High population

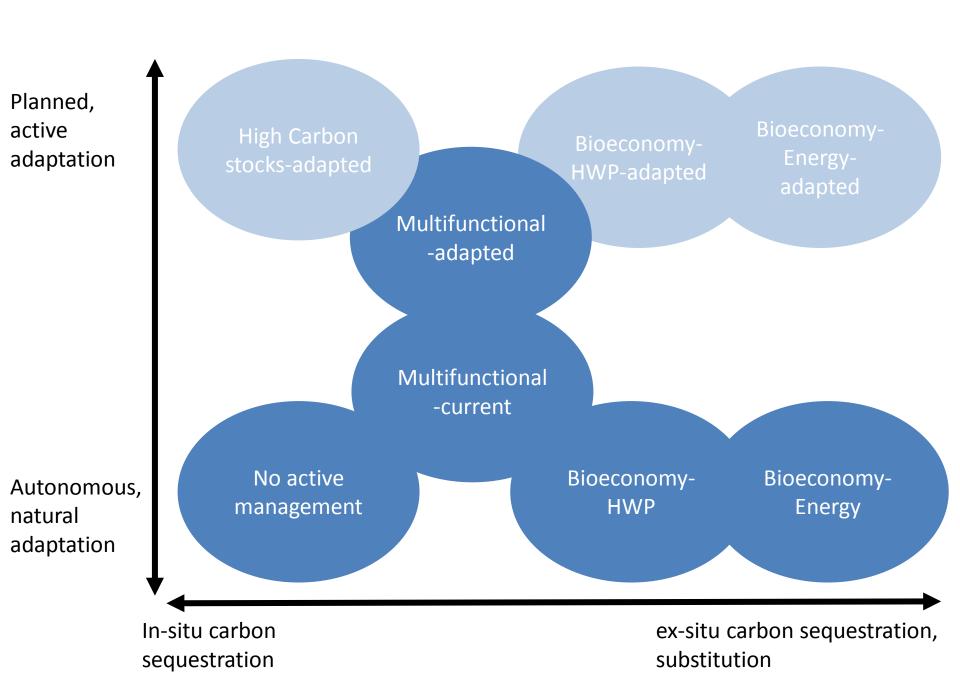
Challenge to adaptation



RCP-SSP combinations provide climate and forest harvest demand



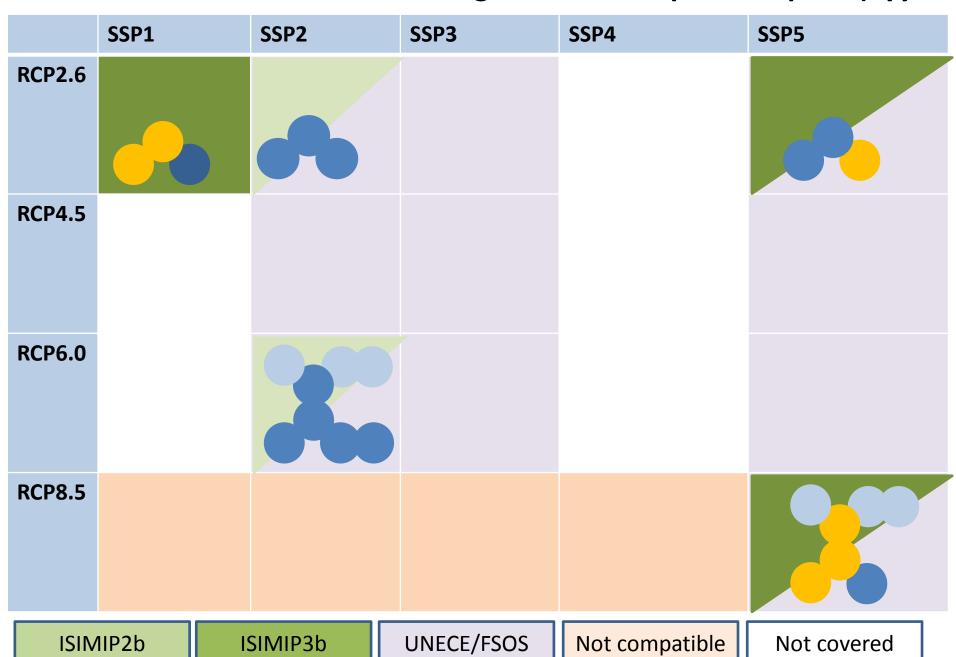
Forest mitigation and adaptation space provides context within each RCP-SSP combination



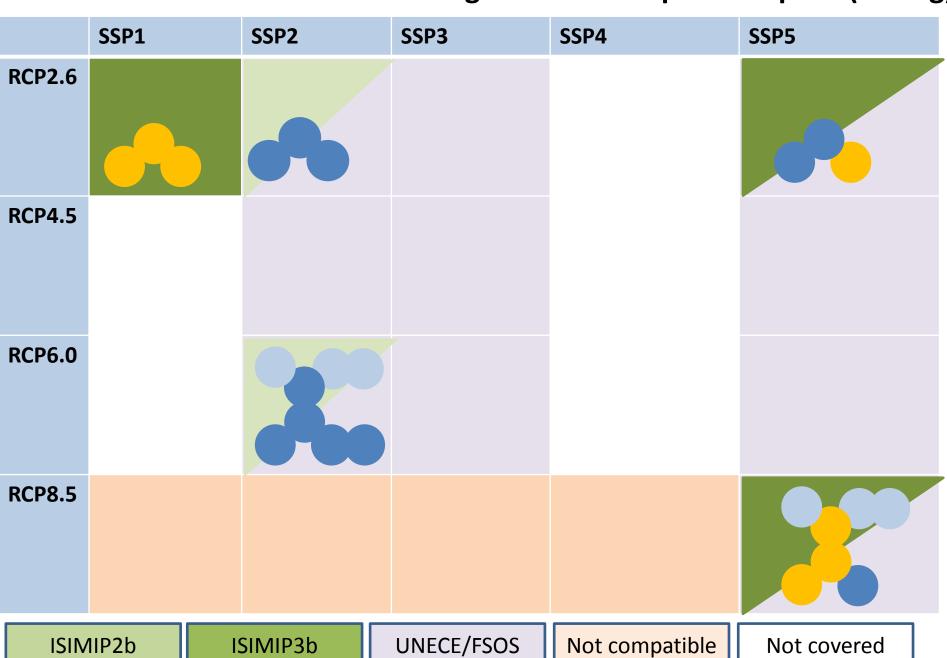
RCP-SSP combinations + forest mitigation and adaptation space

	SSP1	SSP2	SSP3	SSP4	SSP5
RCP2.6	200	200			
RCP4.5					
RCP6.0		200			
RCP8.5					
ISIN	11P2b	SIMIP3b	UNECE/FSOS	Not compatible	Not covered

RCP-SSP combinations + forest mitigation and adaptation space (hyytiäl



RCP-SSP combinations + forest mitigation and adaptation space (solling



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FORMASAM reporting

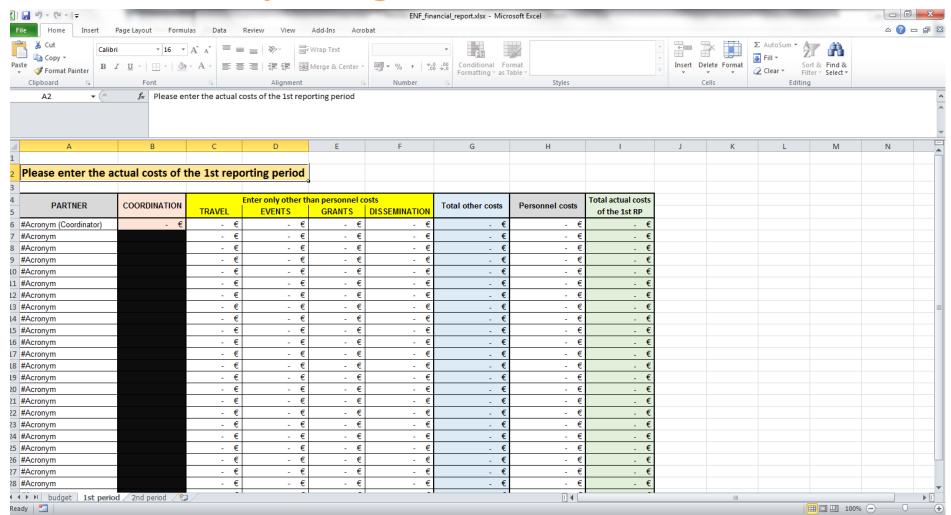


Deliverables

- Deliverable (D1): Discussion notes from meetings (→ break-out group notes!)
- Deliverable (D2, D3): management scenarios (→ Contribute!)
- Deliverable (D4, D6, D8): An analysis of strengths and weaknesses of current forest stand, landscape and EU models for simulating management in Europe's forests (→ Done!)
- Deliverable (D5, D7, D9): Model protocol including future forest management scenarios (→this and next meeting!)
- → First report due on 30th of April 2019



Financial Reporting





When	What	Who					
	Wednesday 27-03-2019						
8:30	Registration						
9:00	Official Opening	B. Reineking					
9:05	Introduction to the meeting & summary from kick-off meeting	C. Reyer					
9:30	External Keynote: Linking global development goals and forest management alternatives - the GLOBIOM approach	F. di Fulvio (IIASA)					
10:15	Coffee break						
10:45	Presentation of GFPM results for different SSPs	MJ Schelhaas					
11:15	Discussion/refreshing of Scenario approach	all					
12:00	Lunch						
13:00	Field Trip highlighting local management challenges in mountain forests (there might be snow - hiking shoes, sunscreen and sunglasses required)	all					
20:00	Joint networking dinner organised by IRSTEA						



Thursday 28-03-2019					
9:00	Tree size inequality and productivity of forests	T. Cordonnier			
9:25	Demographic changes of tree species at their edges, a trait-based analysis	G. Kunstler			
9:45	Organisation of the break-out groups, tasks and discussion	all			
10:15	Coffee break plus poster session				
10:45	Break-out groups TG1-4 (reporting sheets for TG1, TG2, TG3, TG4)	Task Groups			
12:30	Lunch				
13:30	Break-out groups continued (reporting sheets for TG1, TG2, TG3, TG4)	Task Groups			
15:00	Coffee break plus poster session				
15:30	Break-out groups continued (reporting sheets for TG1, TG2, TG3, TG4)	Task Groups			
16:30	Plenary and reporting from break-out groups, official closing	all			
17:00	End of main meeting				
Friday 29-03-2019					
9:00	ISIMIP/FORMASAM stand-scale modellers meeting	ISIMIP members			
14:00	End of meeting	Who?			

F I IV

Organisations of group work

- Report in google docs
- Landscape group all happy?
- MJ to join EU group after some time?
- Stand modellers
 Christopher will help
- Scenario group: write up storylines? Graphical visualisation of framework? Product/paper?

Since Wageningen

- Scenario matrix ready
- FORMIT management sceanrios published
- Forest demand Scenarios from GFTM available



Closing

- Summary from break-out groups
- Send pictures
- Next meeting in Zvolen on 18-20 of September 2019
- Final meeting in Potsdam in early 2020
- Get ready for reporting
- (Interested to get involved into the FSOS study?) → process
- ISIMIP workshop in Paris
- Next steps?

