

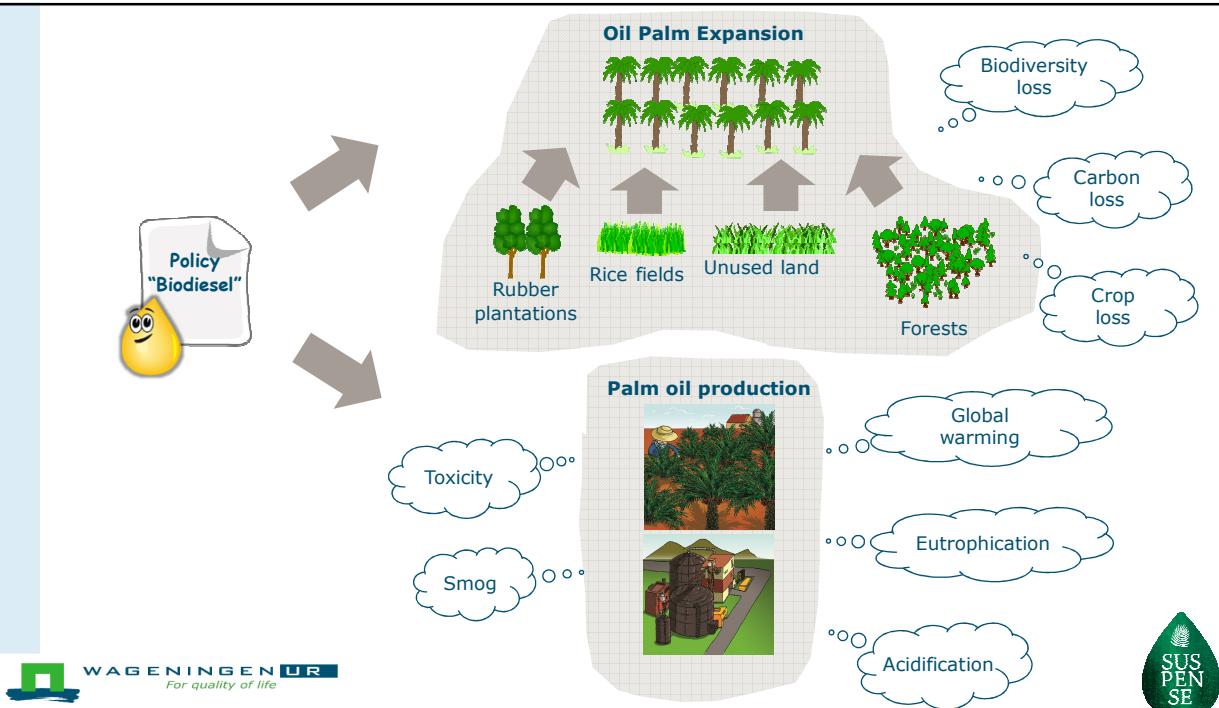
Improving environmental sustainability of Thai palm oil production in 2050

Kanokwan Saswattecha

November 8, 2016



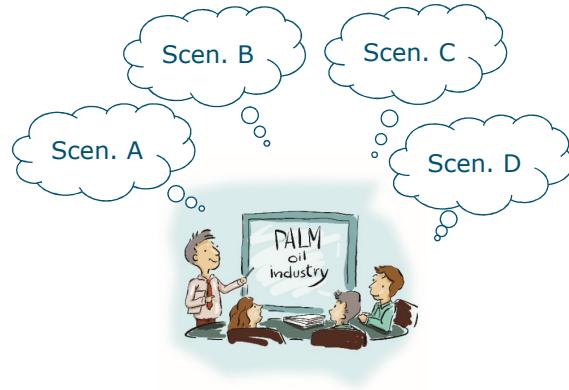
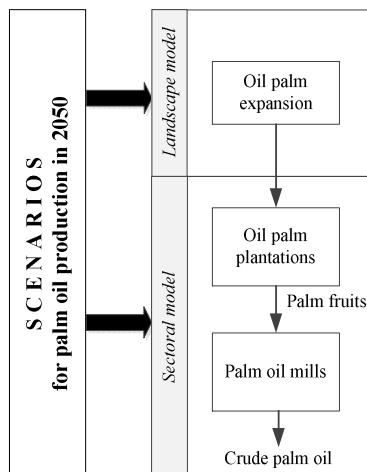
Introduction



Objectives

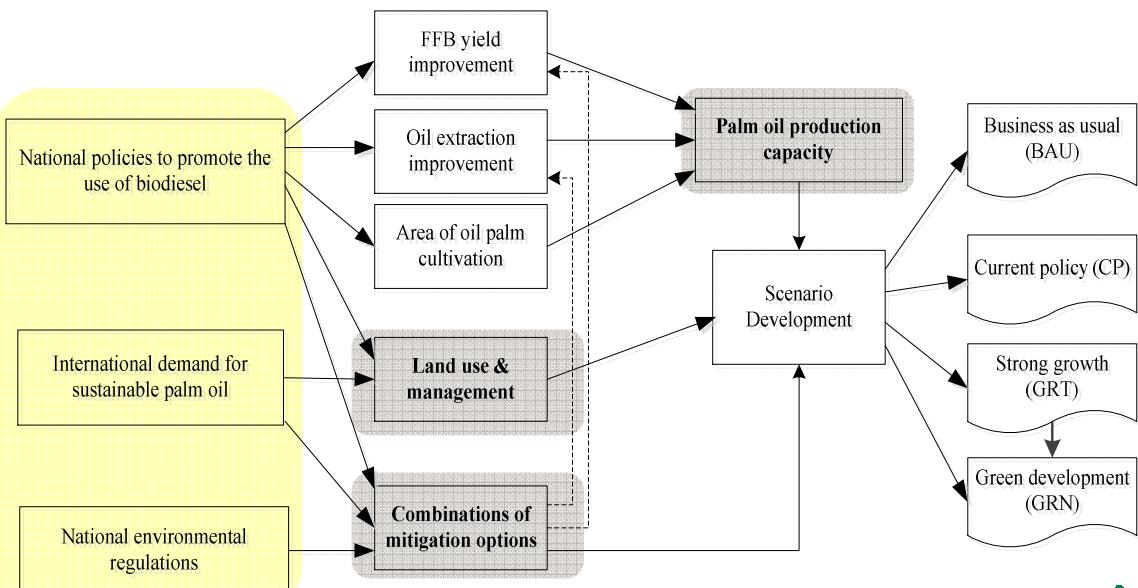
To analyse possibilities to **improve environmental sustainability** of palm oil production in Thailand

SYSTEM BOUNDARY



WAGENINGEN UR
For quality of life

Scenario Development

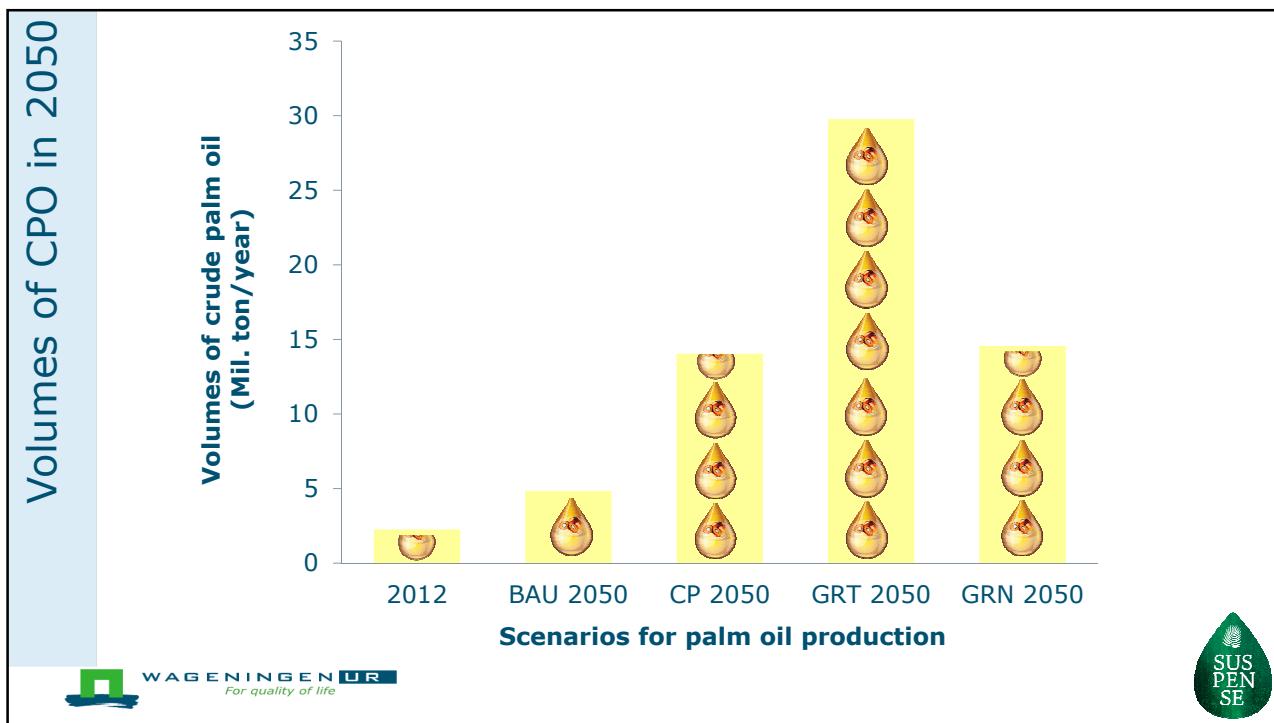


WAGENINGEN UR
For quality of life



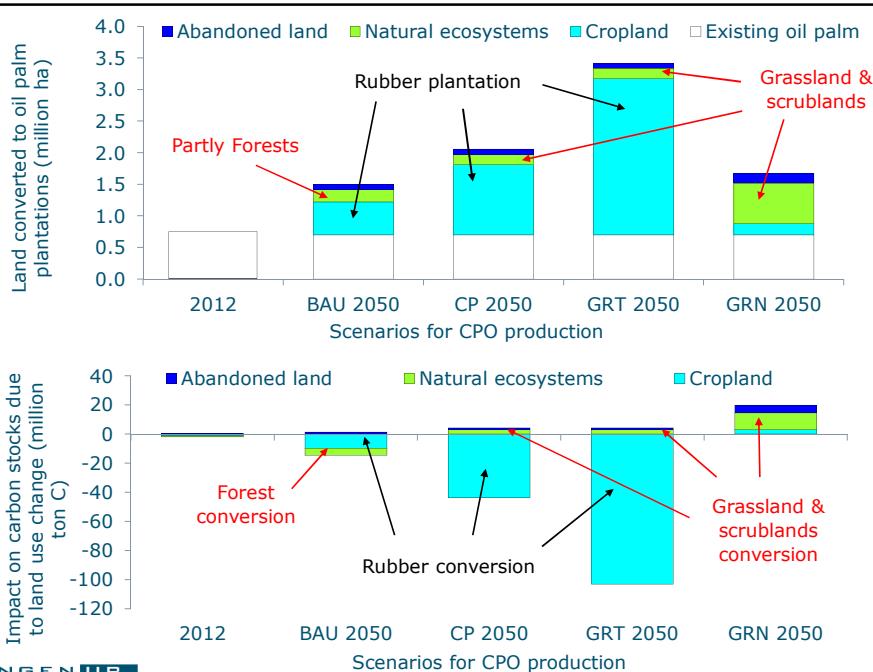
Scenario Description	Mitigation options	current envir. practices of palm oil production	current envir. practices remain unchanged until 2050	- follows the MOAC plan to increase palm oil production - domestic market - assumes continued increase until 2050	- a fast increase in the export of palm oil - following RSPO standards	- a shift towards environmentally friendly production - domestic market
	Oil extraction rate					
	FFB yields					
	Land use management					
	Base year (2012)	Business as Usual (BAU) 2050	Current Policy (CP) 2050	Strong Growth (GRT) 2050	Green Development (GRN) 2050	Consideration of land suitability

WAGENINGEN UR
For quality of life

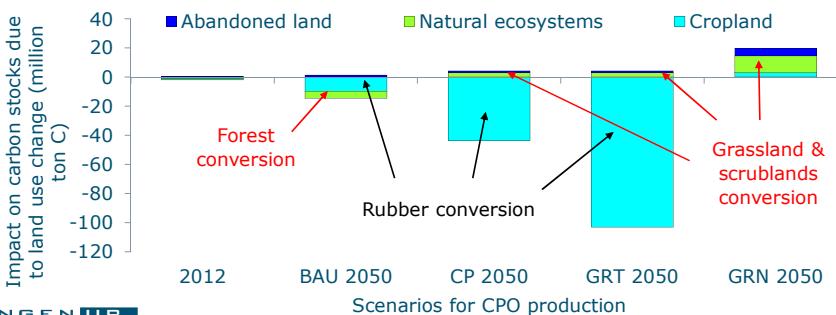


Effects on ecosystem services

Land use change



Carbon storage

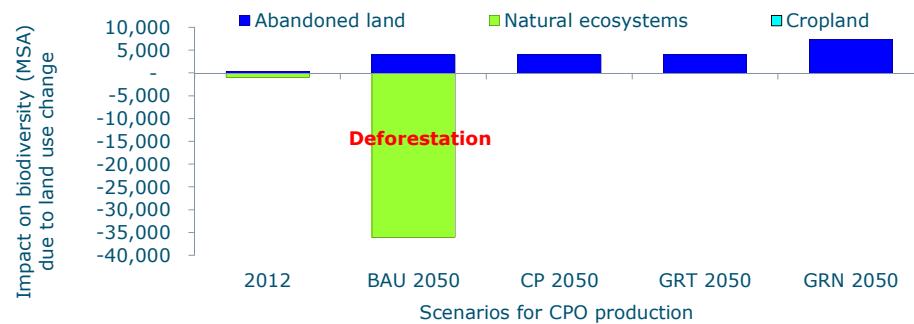


WAGENINGEN UR
For quality of life

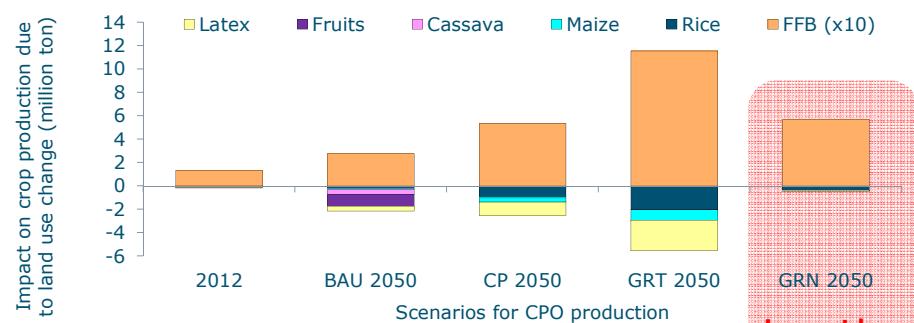


Effects on ecosystem services

Biodiversity conservation



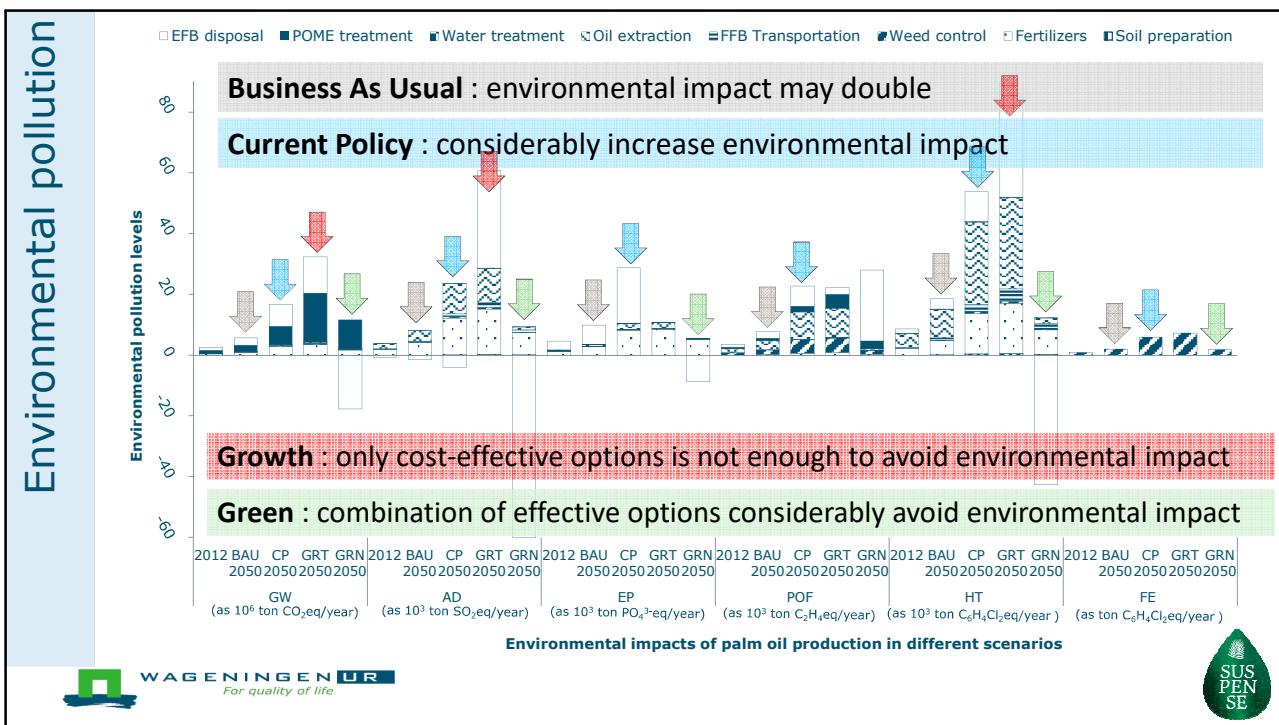
Crop provisioning service



WAGENINGEN UR
For quality of life



Environmental pollution



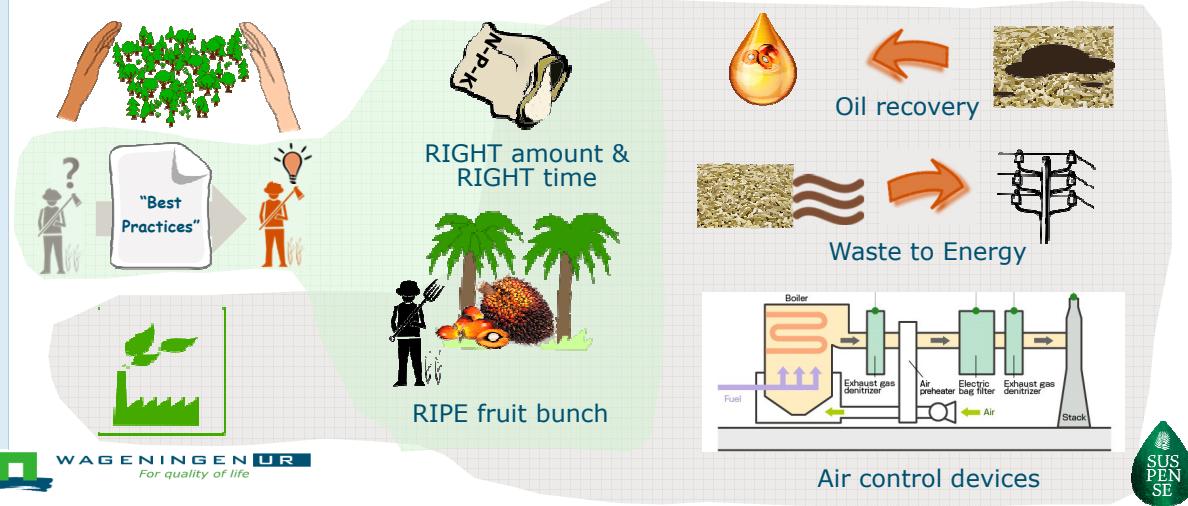
Conclusions

... **RSPO CERTIFICATION** alone is **NOT** enough to ensure

future sustainable palm oil (SPO) production in Thailand ...

... **SPO** is **POSSIBLE** if the government would consider to **INVEST** in

a combination of **EFFECTIVE** options ...



Thank you for your attention!

Contact information:

kanokwan.saswattecha@wur.nl

Kanokwan.saswattecha@gmail.com



*This research is performed under the SUSPENSE program. For more information, please visit
<http://www.wageningenur.nl/en/Research-Results/Projects-and-programmes/Suspense.htm>*

