



Socio-economic roundtable on climate friendly agriculture February 14, 2017

The socio-economic impact of climate friendly practices:

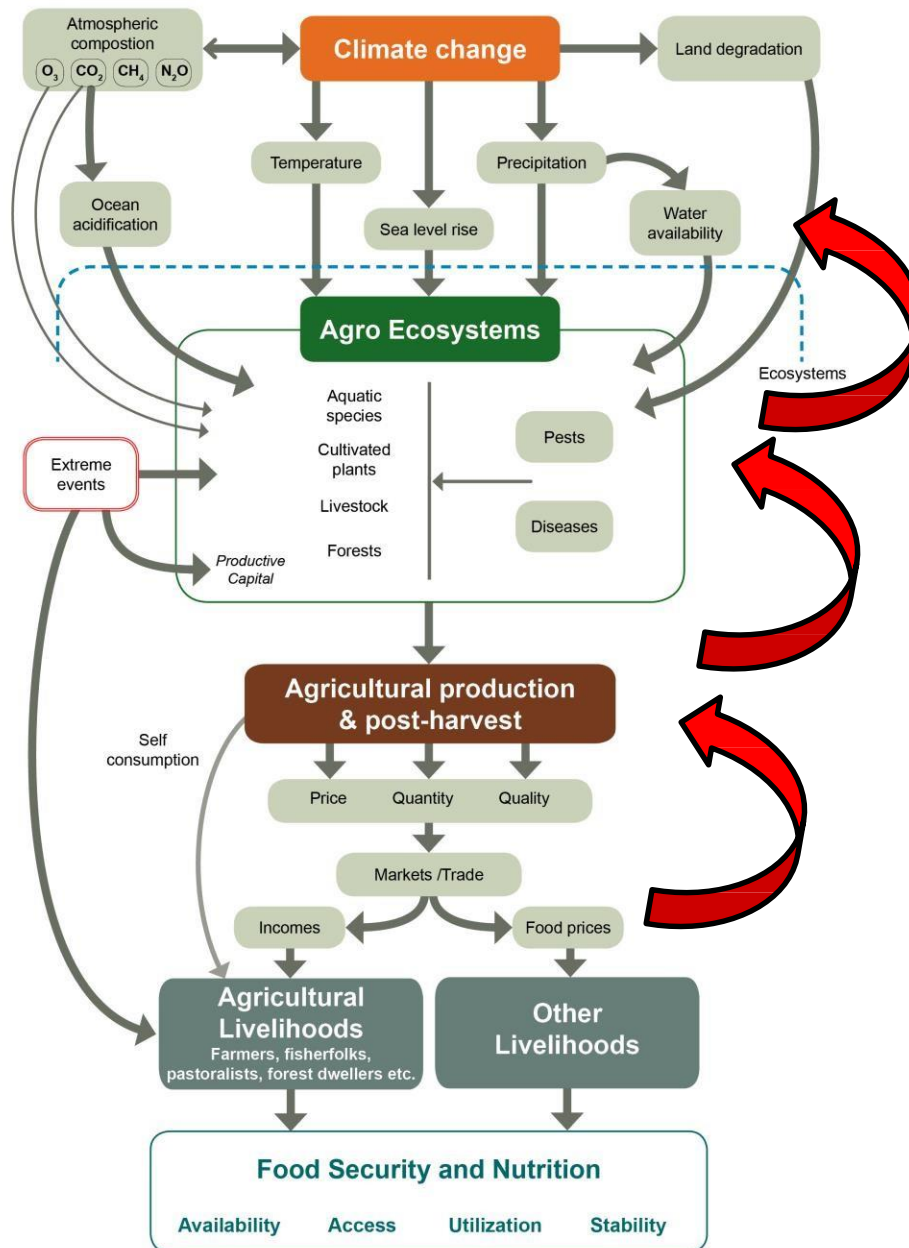
Experiences from the SOLMACC Project

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Climate change will alter:

- agricultural productivity
- production costs
- agricultural practices (e.g. new crop varieties, dairy production, irrigation, time management)

➤ Influence on farmer's income and practices?

Long-term sustainability



New practices must help to:

- stabilize/increase agricultural productivity
- or reduce production costs
- or to utilize new market niches to increase the market value

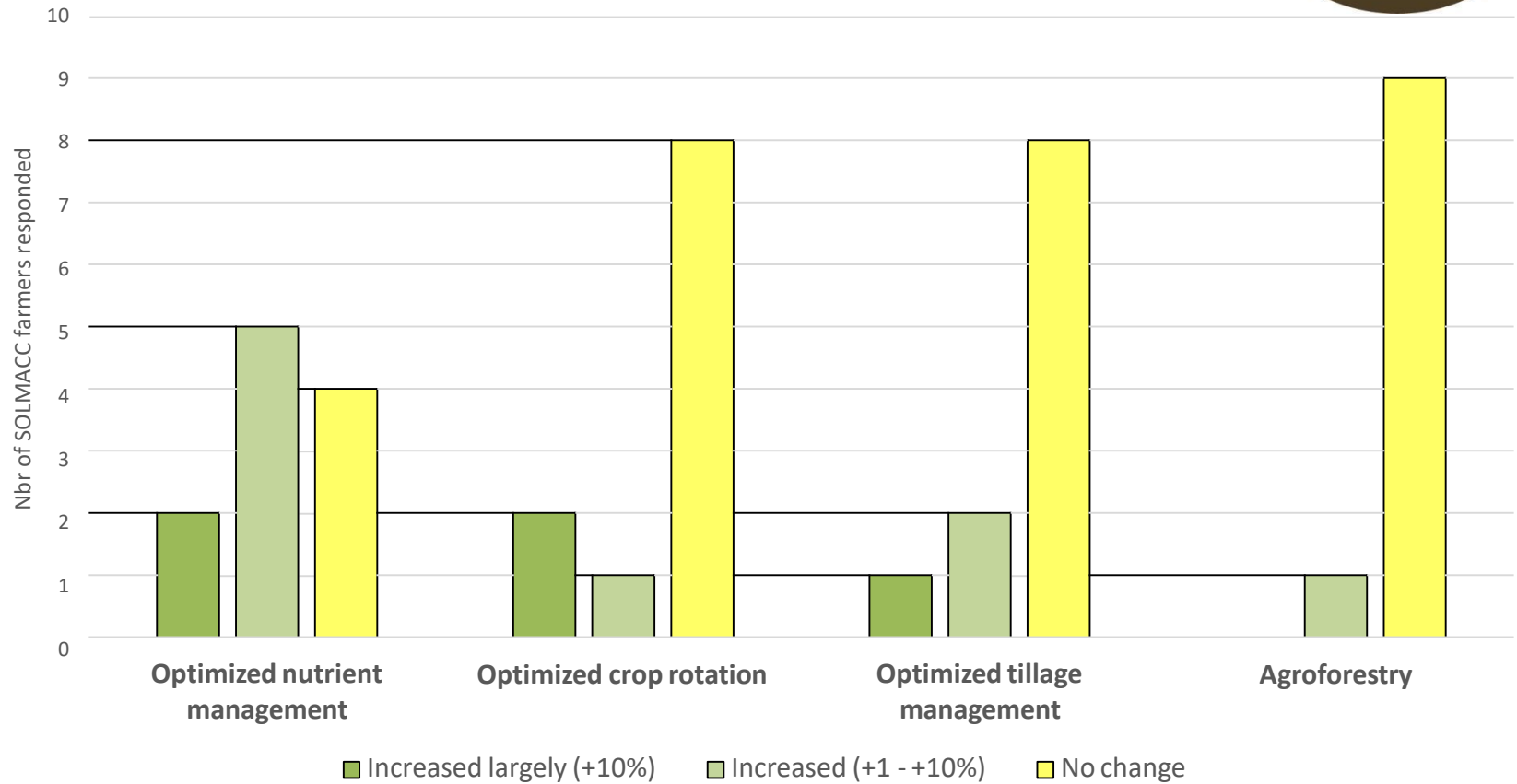
While:

- reducing GHG emissions and adapting to climate change
- maintaining/promoting ecosystem services

Agricultural Productivity



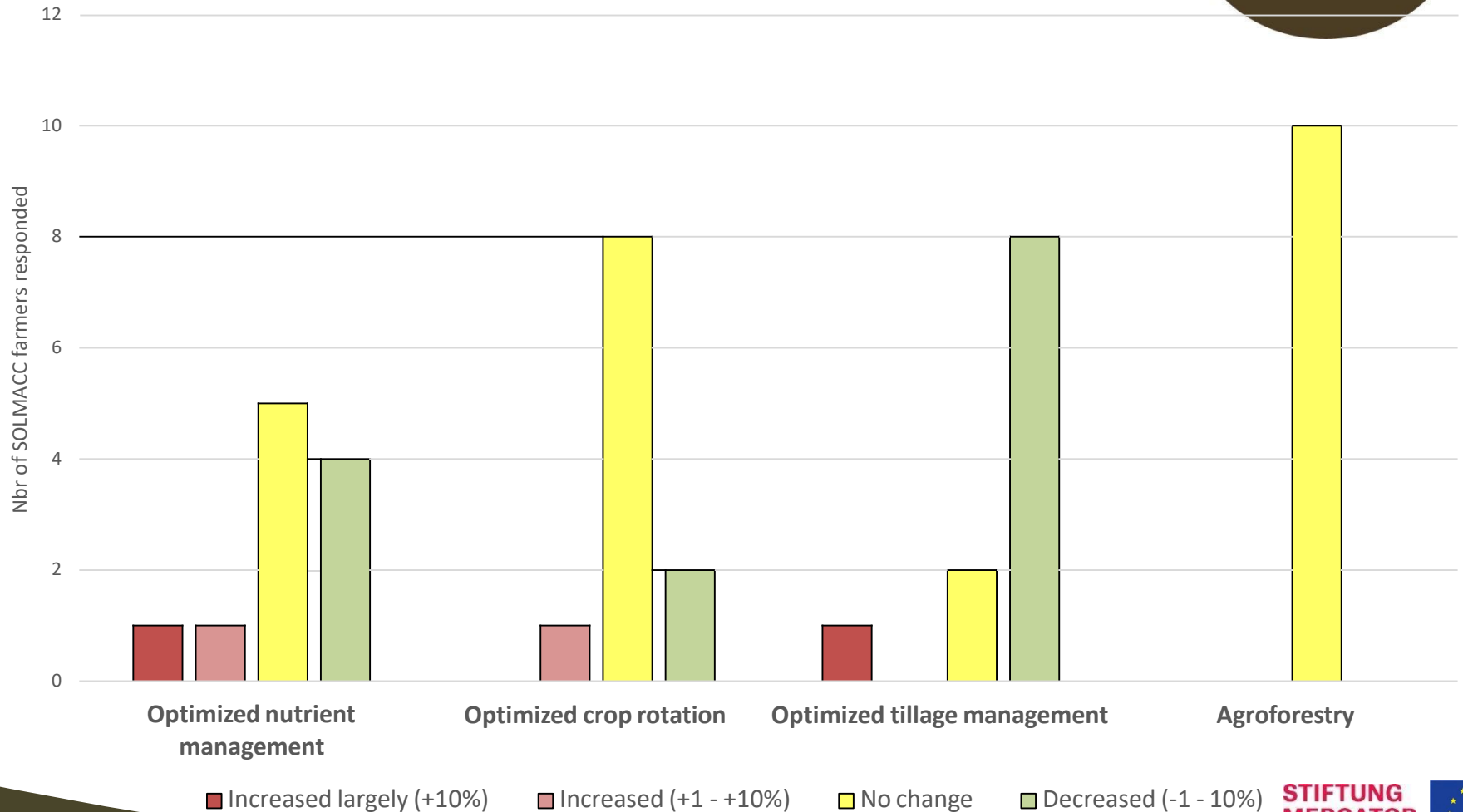
Changes in Crop Yields



Reduction of Costs



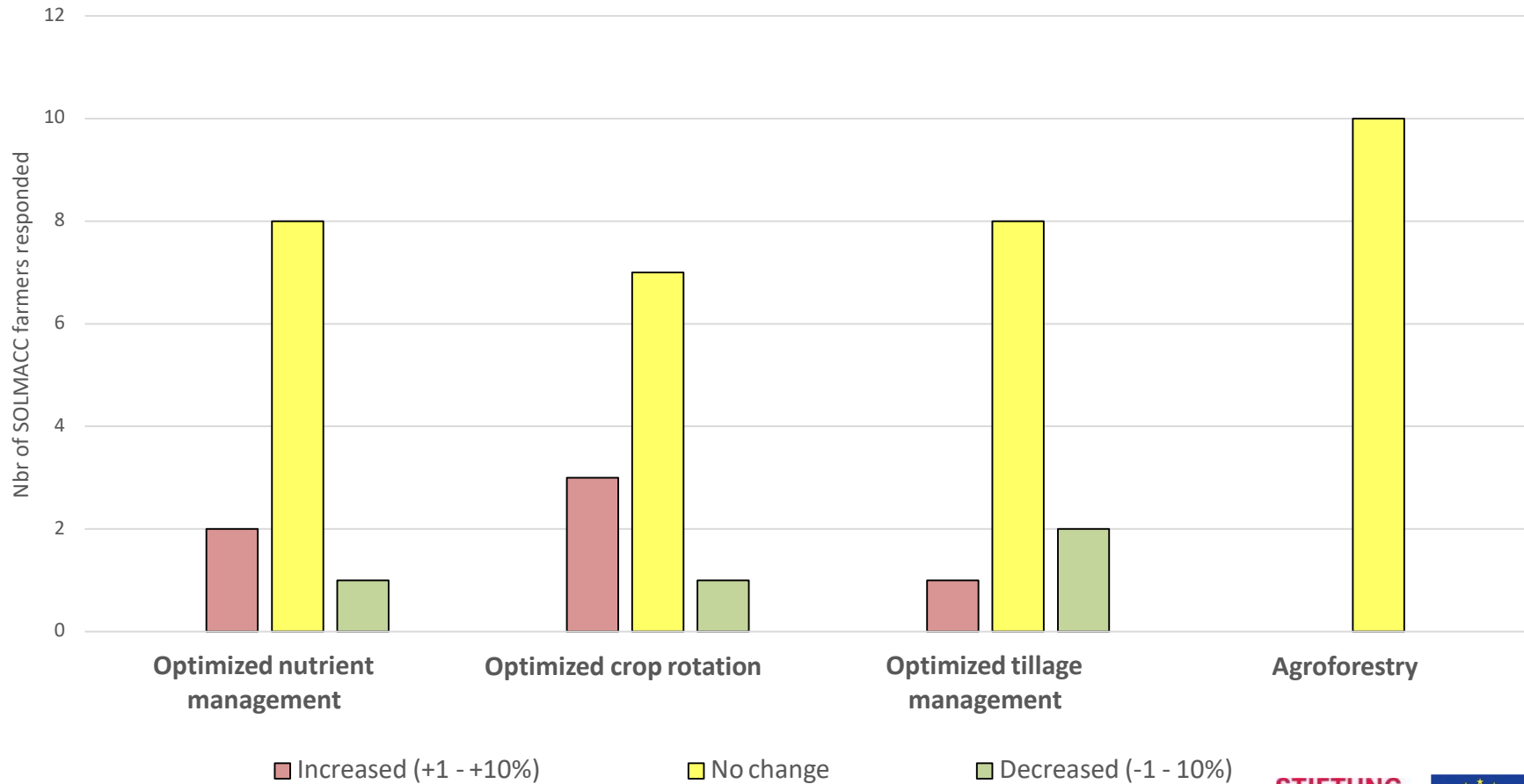
Changes in Operational Costs



Reduction of Costs



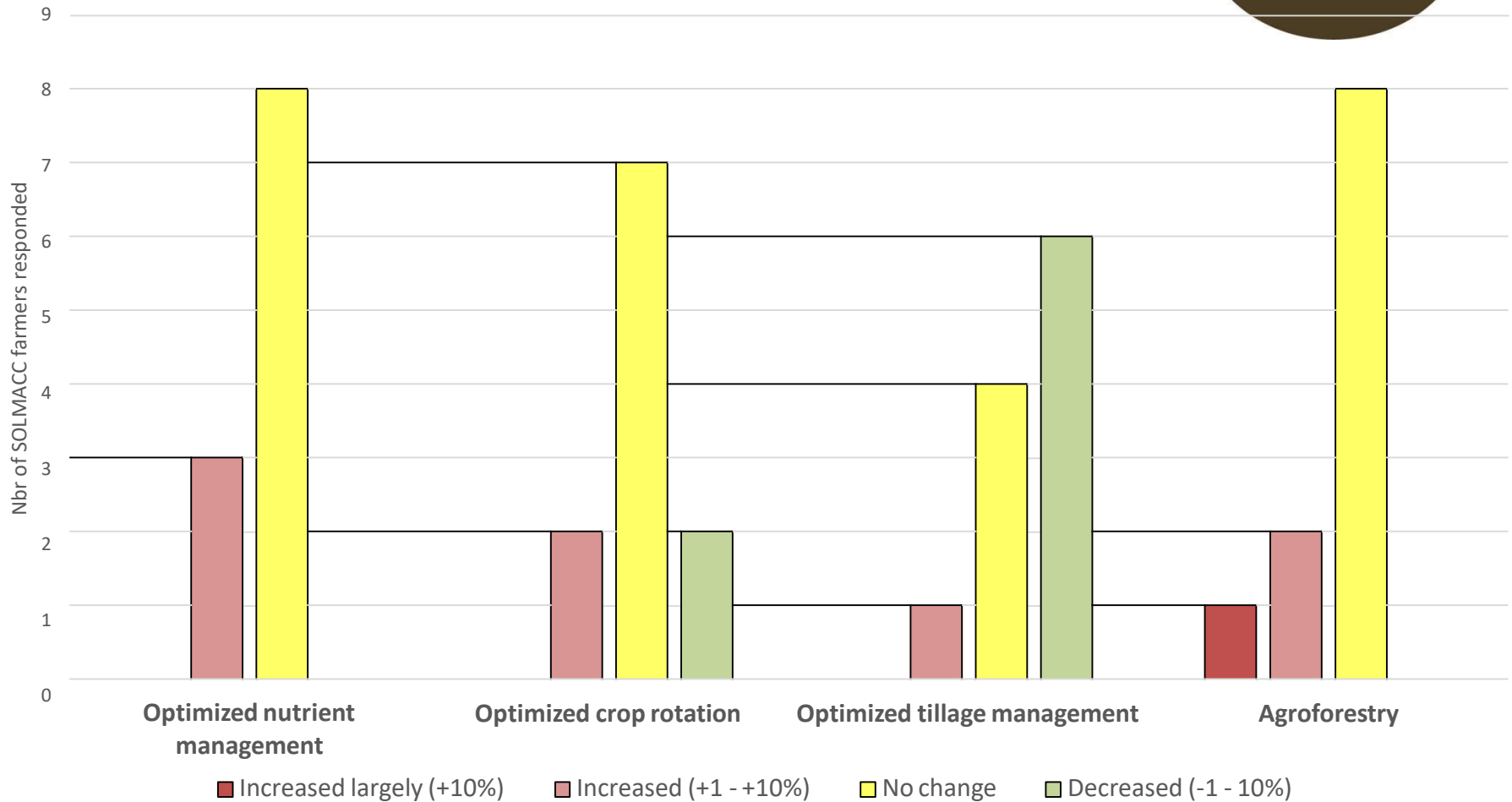
Changes in Input Costs



Reduction of Costs



Changes in Working Costs



New Potentials (Farm Level)



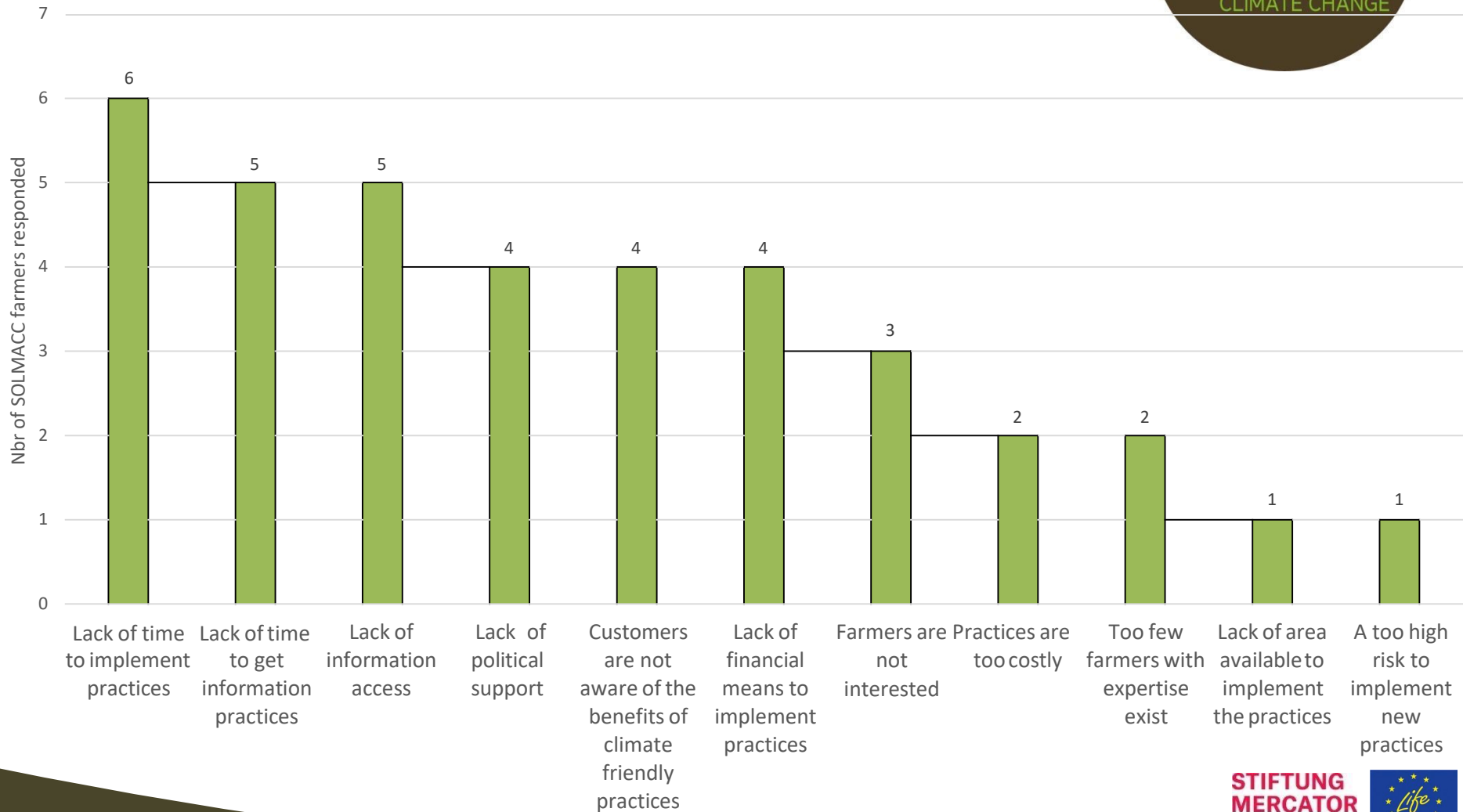
Economic income benefits from the SOLMACC project:

- 3/11 increased largely (more than 10%)
 - 2/11 increased (+1 – 10%)
 - 6/11 neither increased nor decreased
- Economic compensation for climate-friendly practices is needed.

Communication of Information



Hindering factors for farmers to implement climate-friendly practices



New Potential (PES)



Results of seminar work study (2015):

- Lack of information for market potential of ecosystem services
- Ecosystem services are not reflected in market prices
- Marketing them has potential (customer survey, Germany)
- Communication is essential to use potential

Conclusions



- Climate change can provide opportunities and risks
- Yield/cost changes highly depend on the practice and regional circumstances
- Communication of knowledge is a key for mainstreaming climate-friendly practices



Thank you for your attention!

Further information: www.solmacc.eu

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