



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

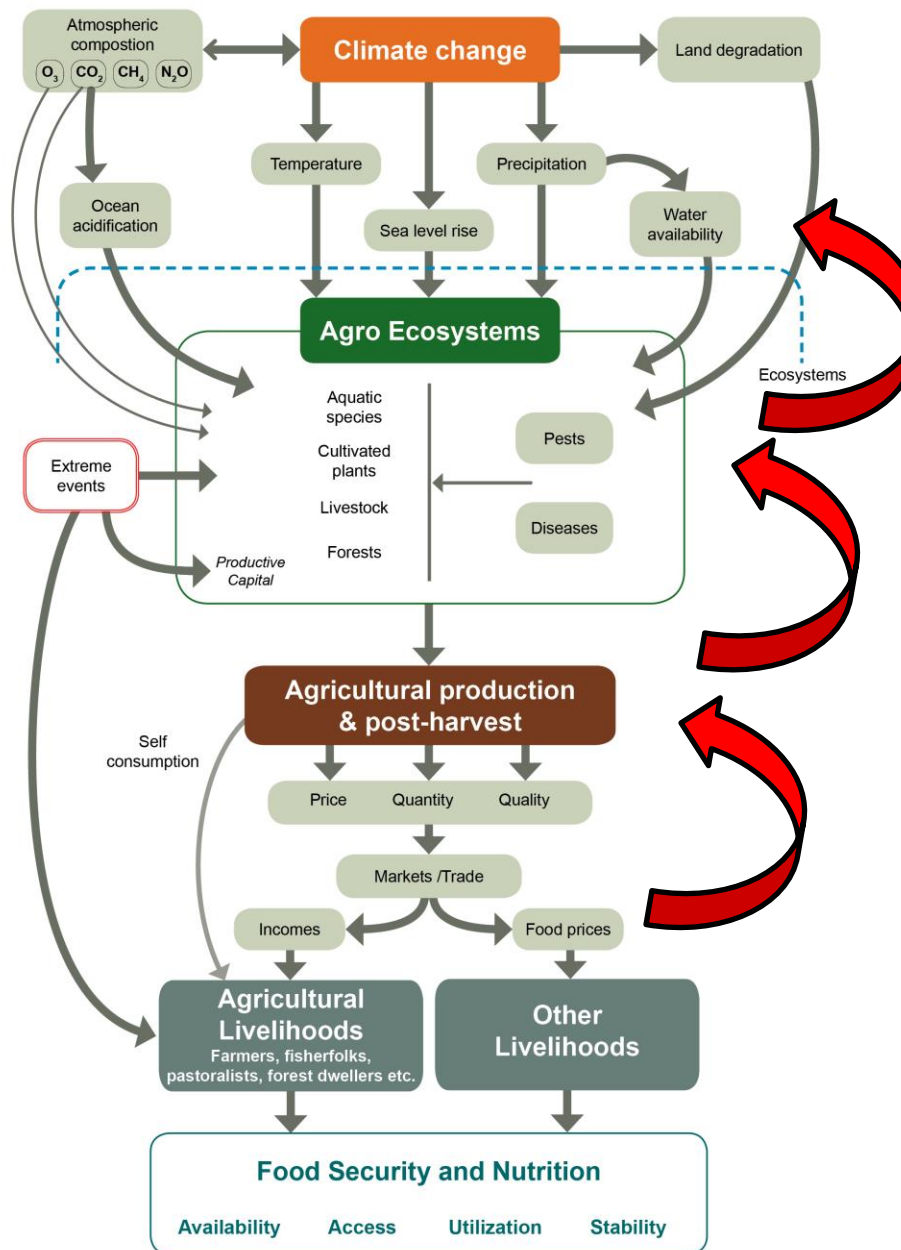
The socio-economic impact of climate friendly practices:

Experiences from the SOLMACC Project

Lin Bautze
SOLMACC Researcher

**STIFTUNG
MERCATOR
SCHWEIZ**





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

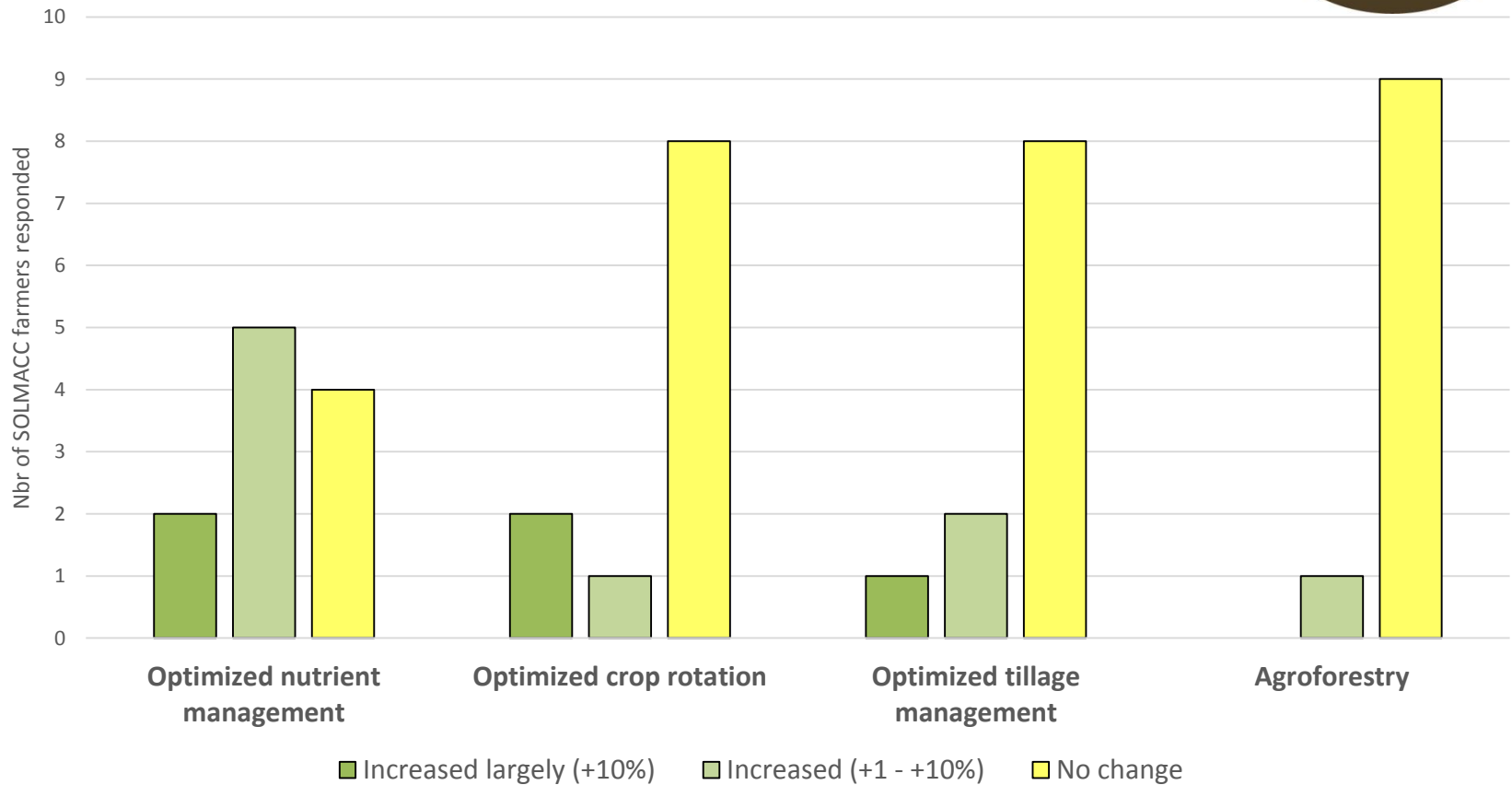
While:

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

Agricultural Productivity



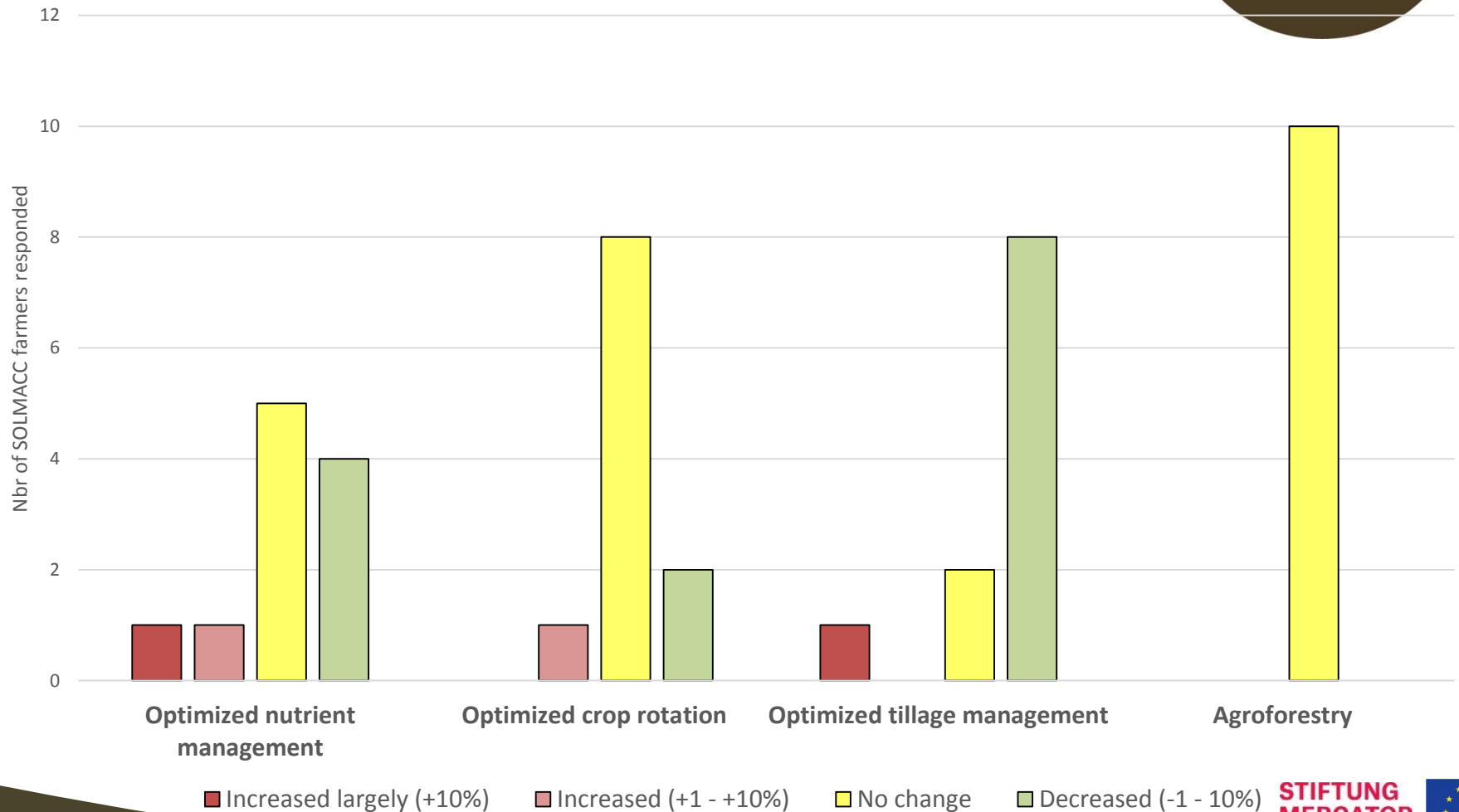
Changes in Crop Yields



Reduction of Costs



Changes in Operational Costs

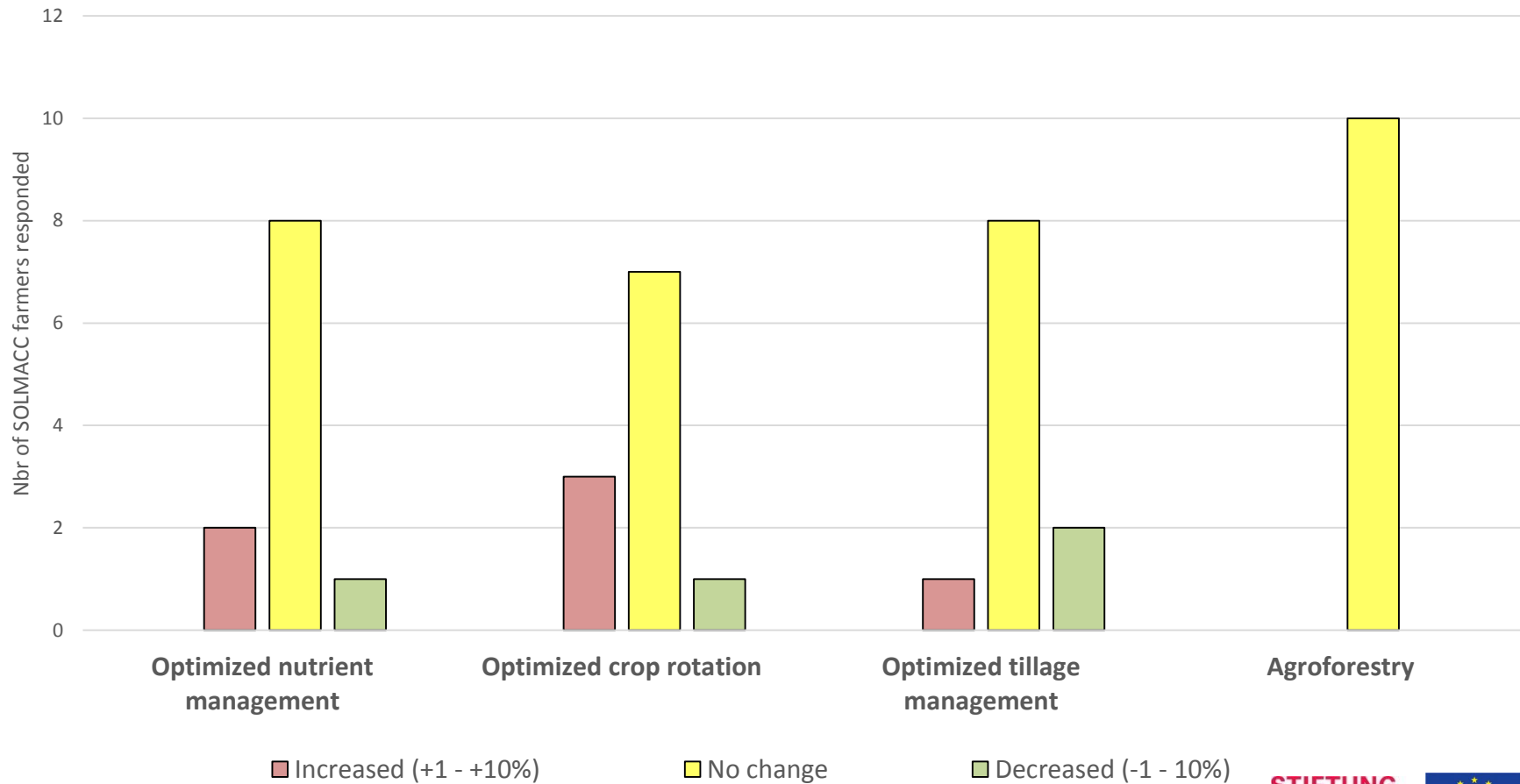


■ Increased largely (+10%) ■ Increased (+1 - +10%) ■ No change ■ Decreased (-1 - 10%)

Reduction of Costs



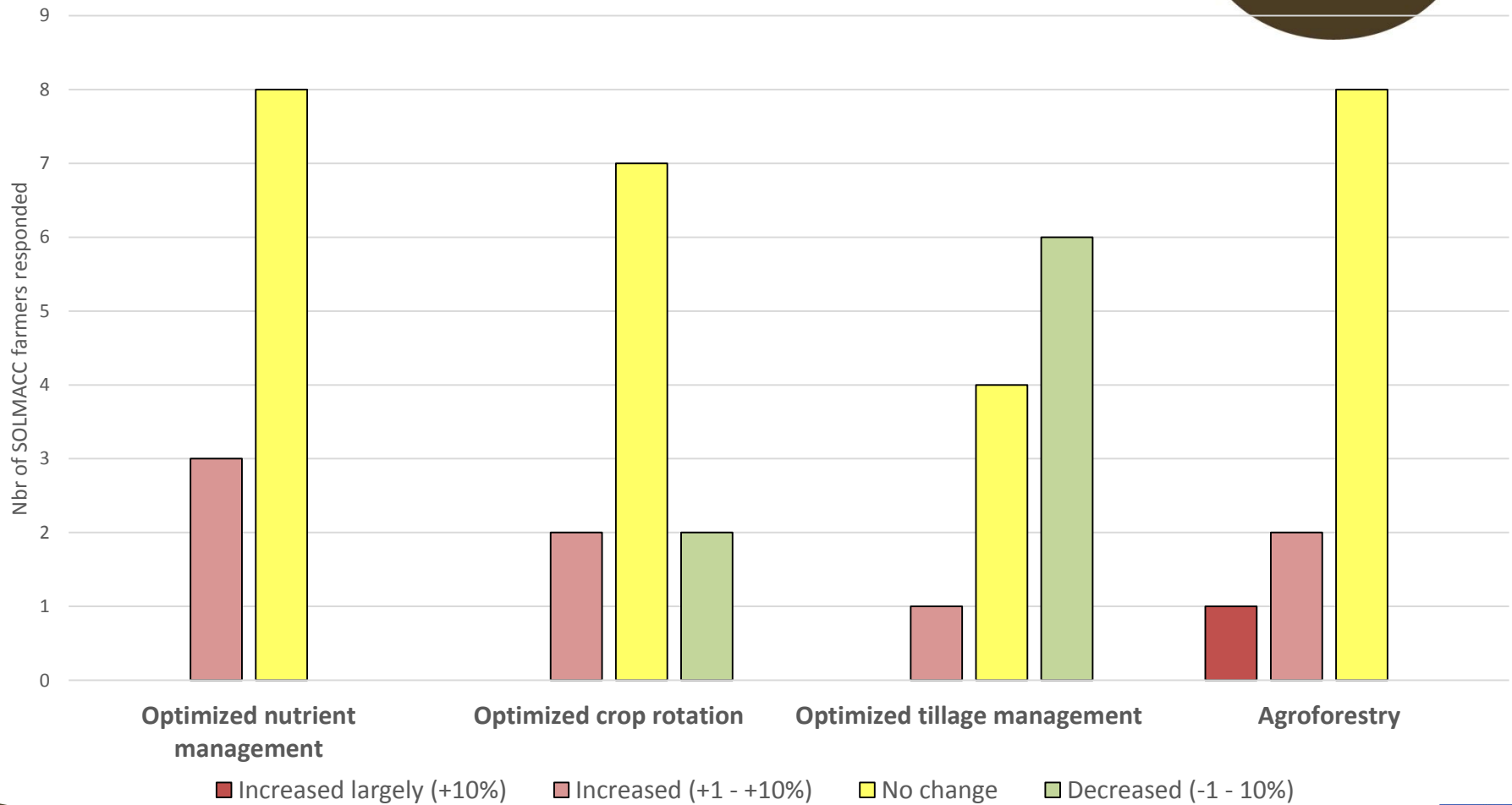
Changes in Input Costs



Reduction of Costs



Changes in Working Costs



New Potentials (Farm Level)



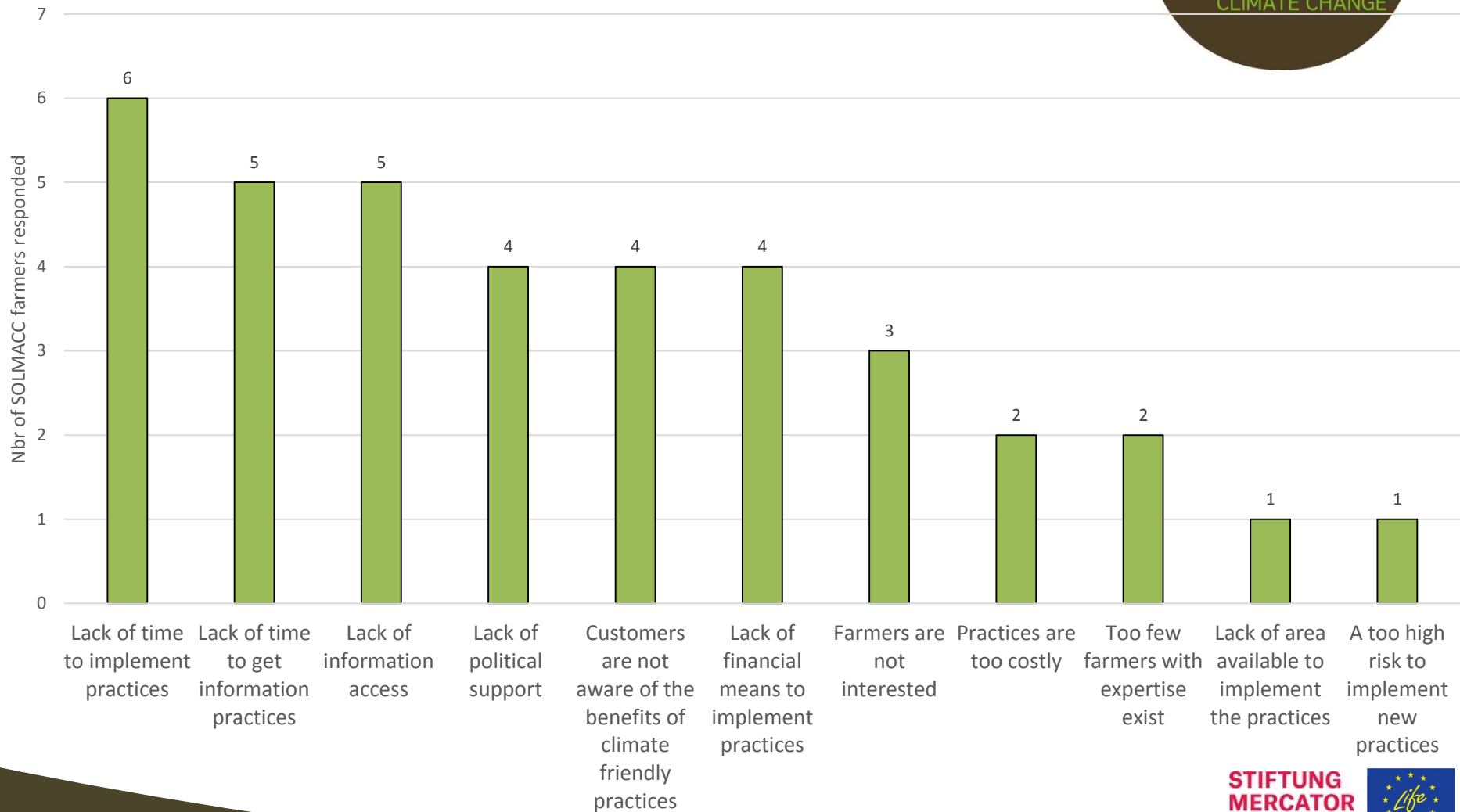
Economic income benefits from the SOLMACC project:

- 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

Contact: Lin.Bautze@fibl.org