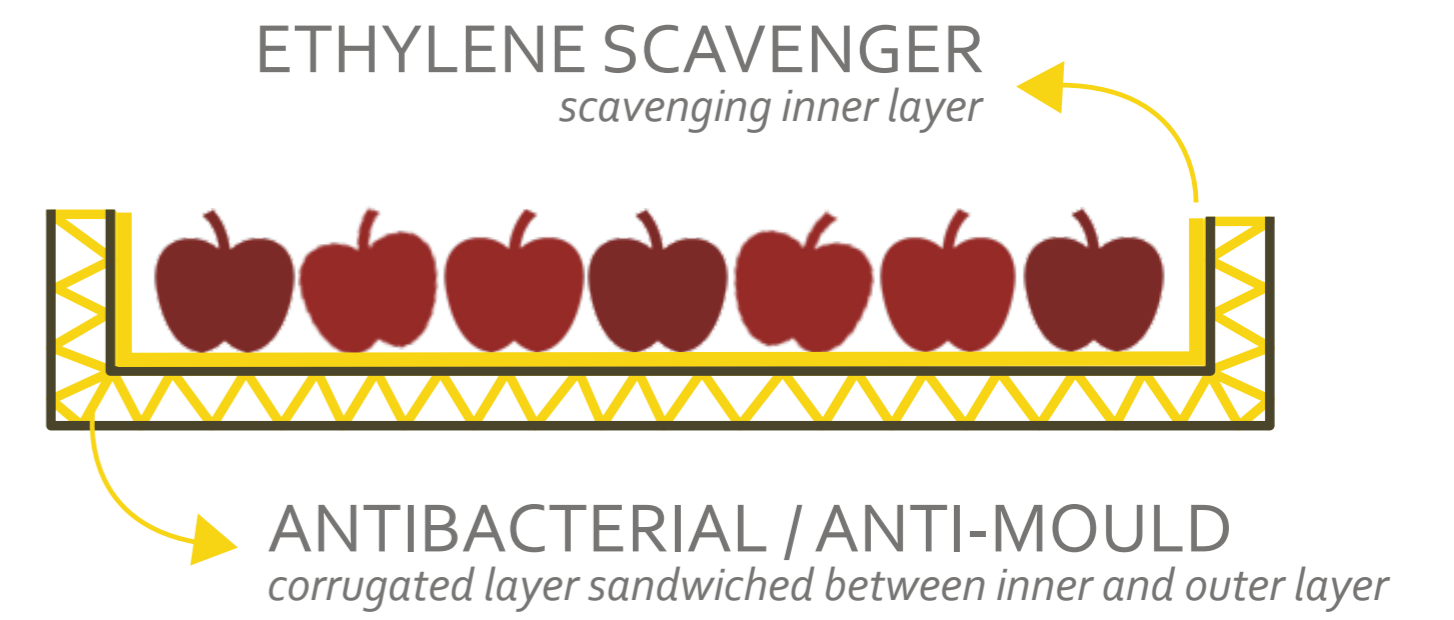
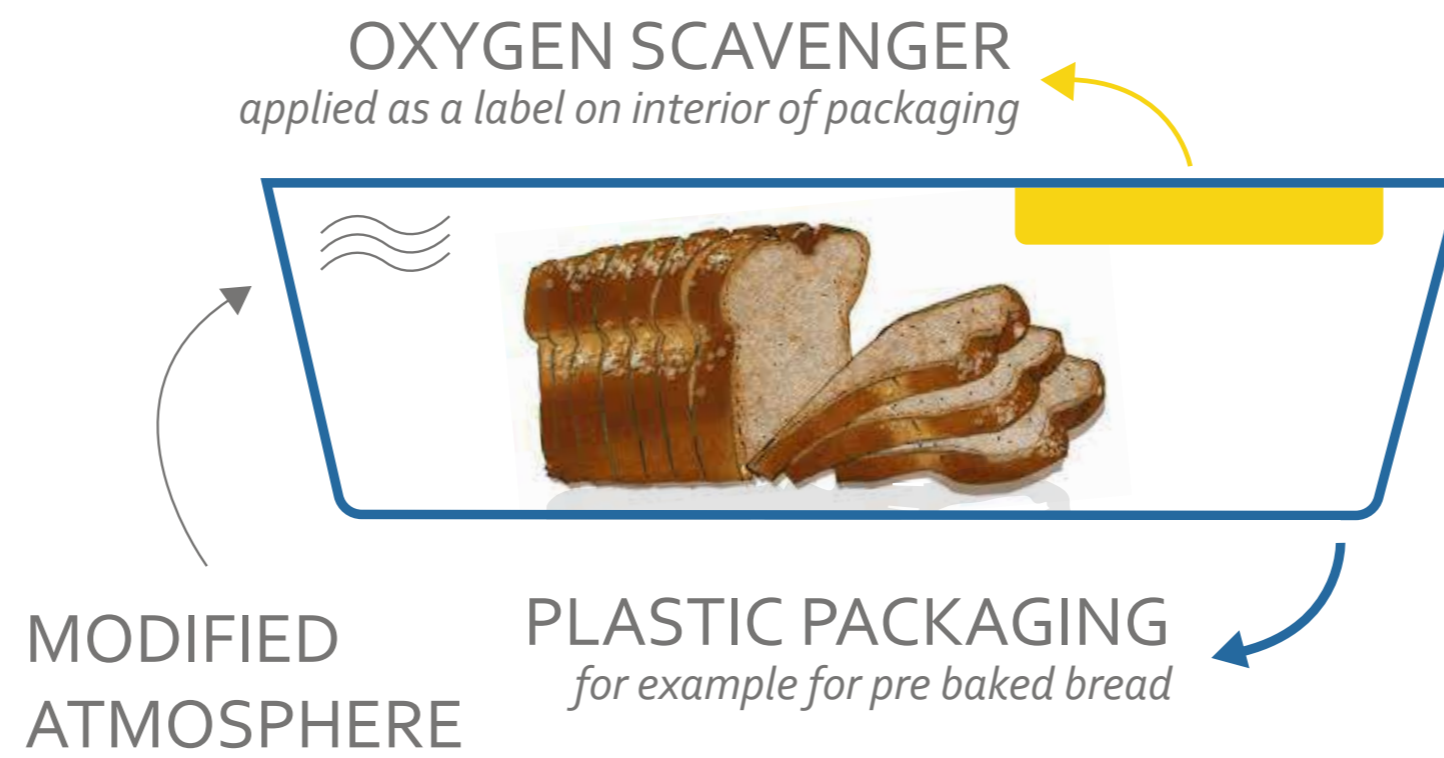
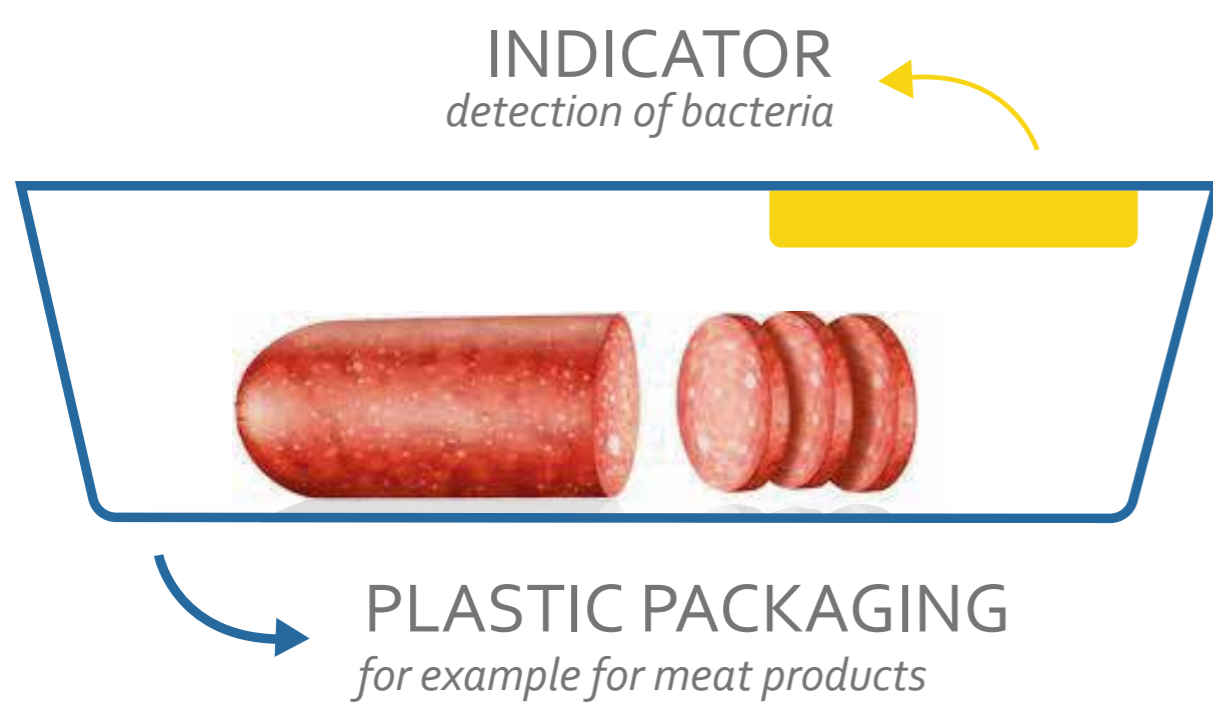


SUSTAINABILITY ISSUES

CRADLE-TO-GATE LIFE CYCLE ASSESSMENT RESULTS

for the demonstrator products



INTELLIGENT PACKAGING

ACTIVE PACKAGING

ACTIVE PACKAGING

ASSUMPTIONS

The indicator is binary - it either shows whether the meat is fresh or not.

ASSUMPTIONS

Bread in active packaging does not require preservatives.

ASSUMPTIONS

Strawberries chosen as a packed product.

FUNCTIONAL UNIT

100 kg of meat consumed

FUNCTIONAL UNIT

100 kg of packed bread sold

FUNCTIONAL UNIT

100 kg of strawberries consumed

SCENARIOS

- 1) Still fresh 1 day after "best-before" date
- 2) Still fresh 2 days after "best-before" date

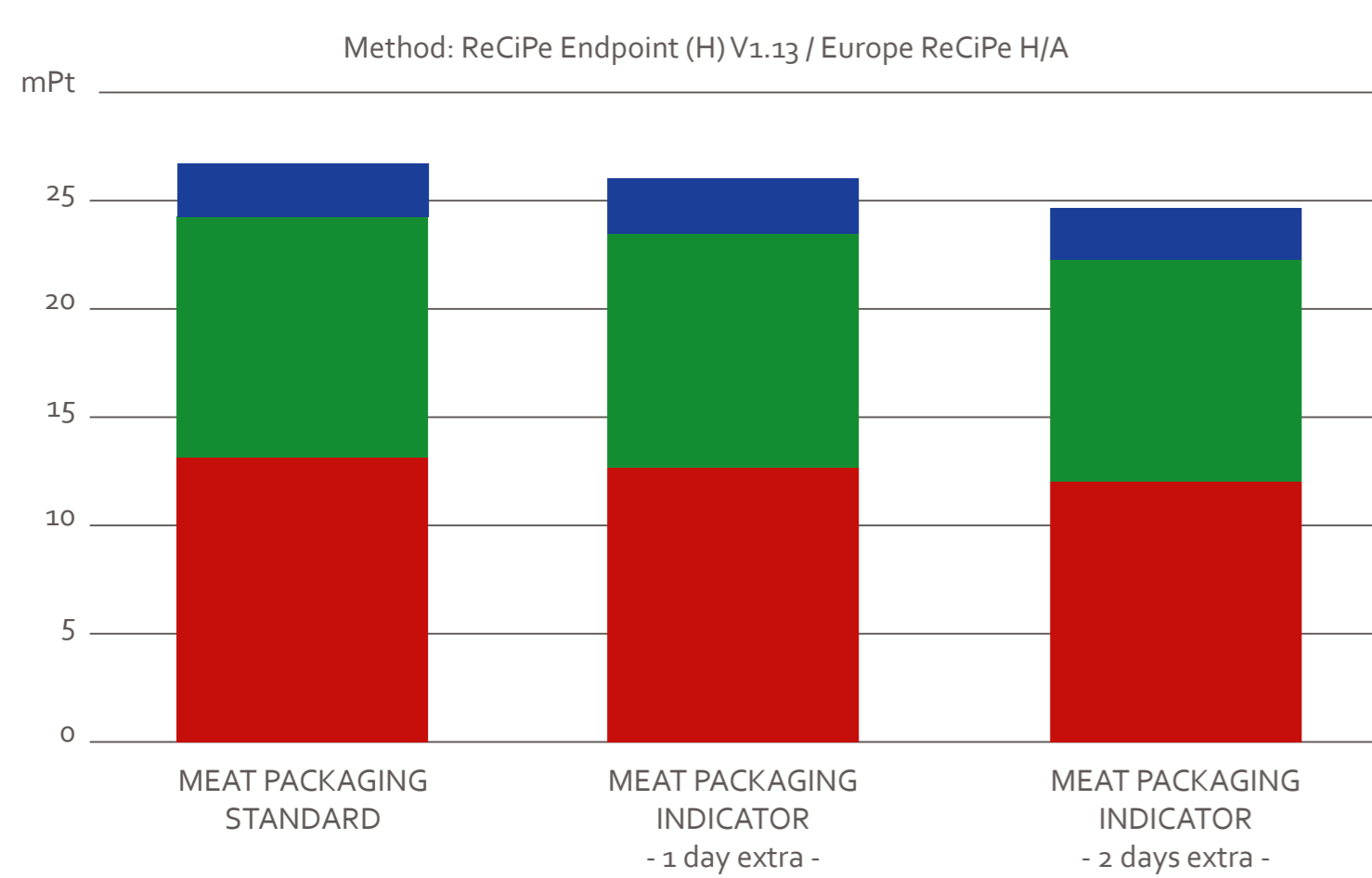
SCENARIOS

Bread does not need preservatives to maintain standard bread shelf life

SCENARIOS

- 1) Shelf life extension - 37% less wasted
- 2) Shelf life extension - 70% less wasted

RESULTS



Decrease of environmental impacts if meat is still fresh after its "best before" date and is not wasted.



HUMAN HEALTH

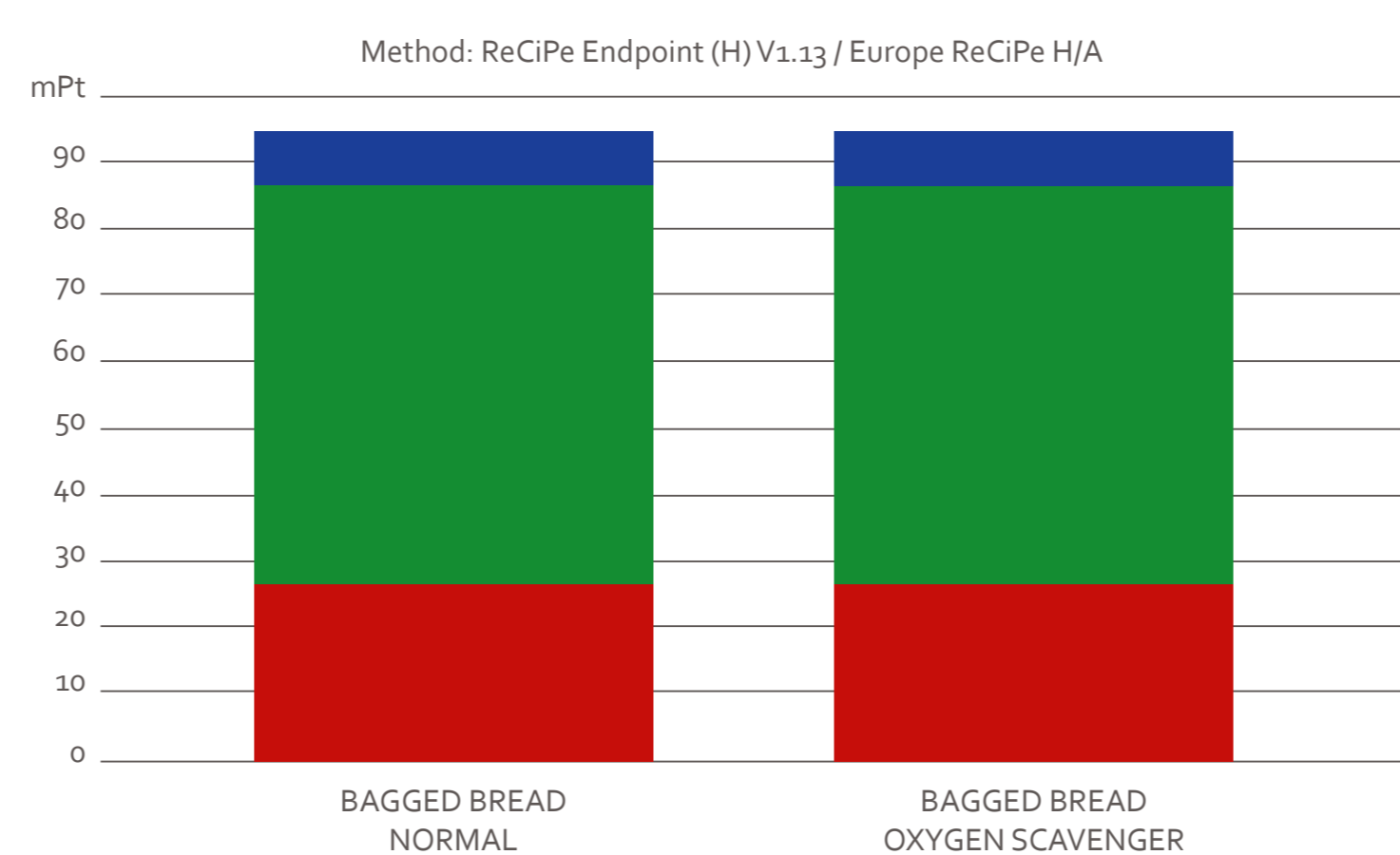


ECOSYSTEMS



RESOURCES

RESULTS



Impact of preservatives is not significant from environmental perspective. But it may be from social perspective of sustainability.



HUMAN HEALTH

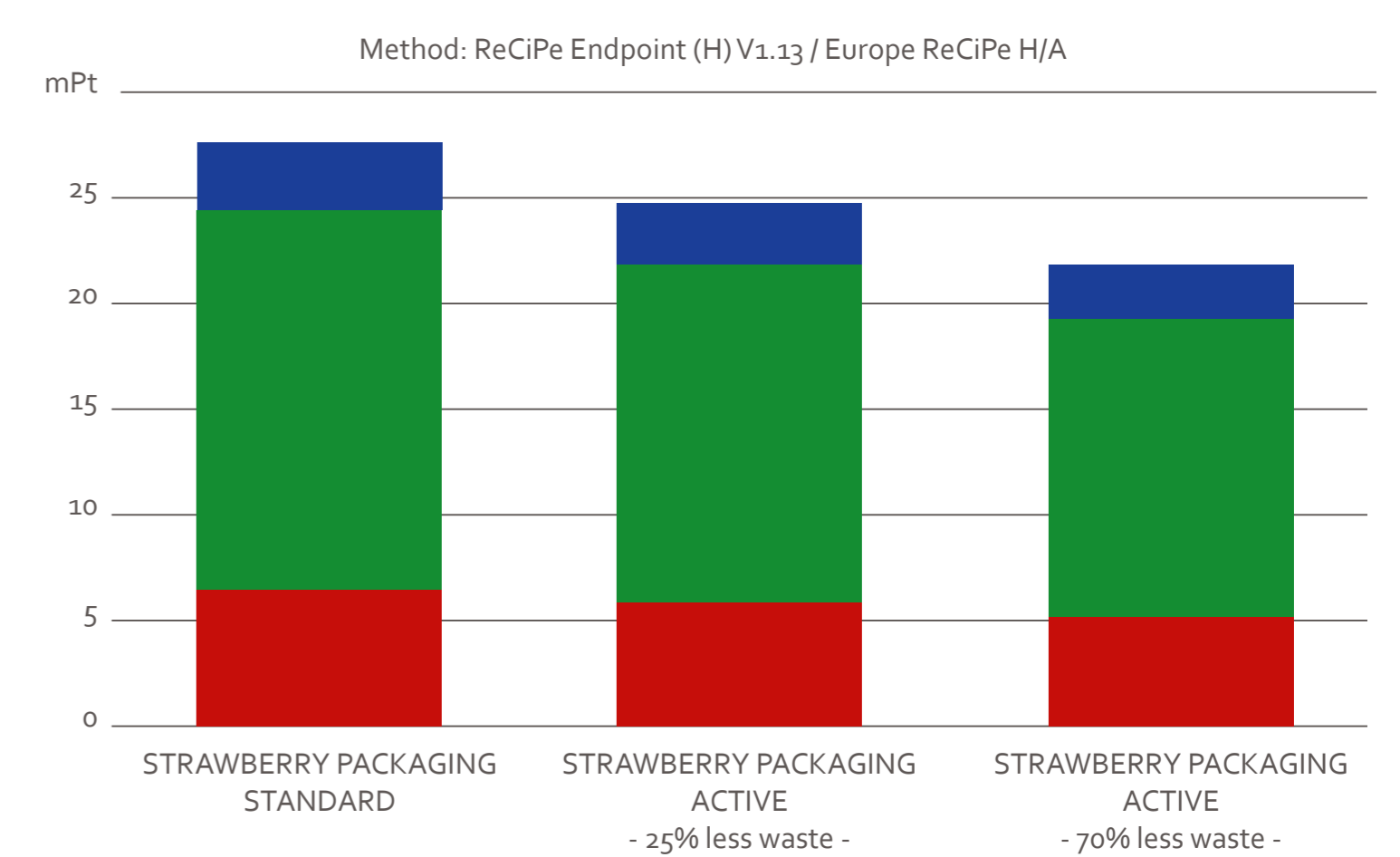


ECOSYSTEMS



RESOURCES

RESULTS



Decrease of environmental impacts with fresher strawberries thanks to active components of the packaging.



HUMAN HEALTH



ECOSYSTEMS



RESOURCES