



# Demonstrators

*How does intelligent and active packaging work?*

March, 2018

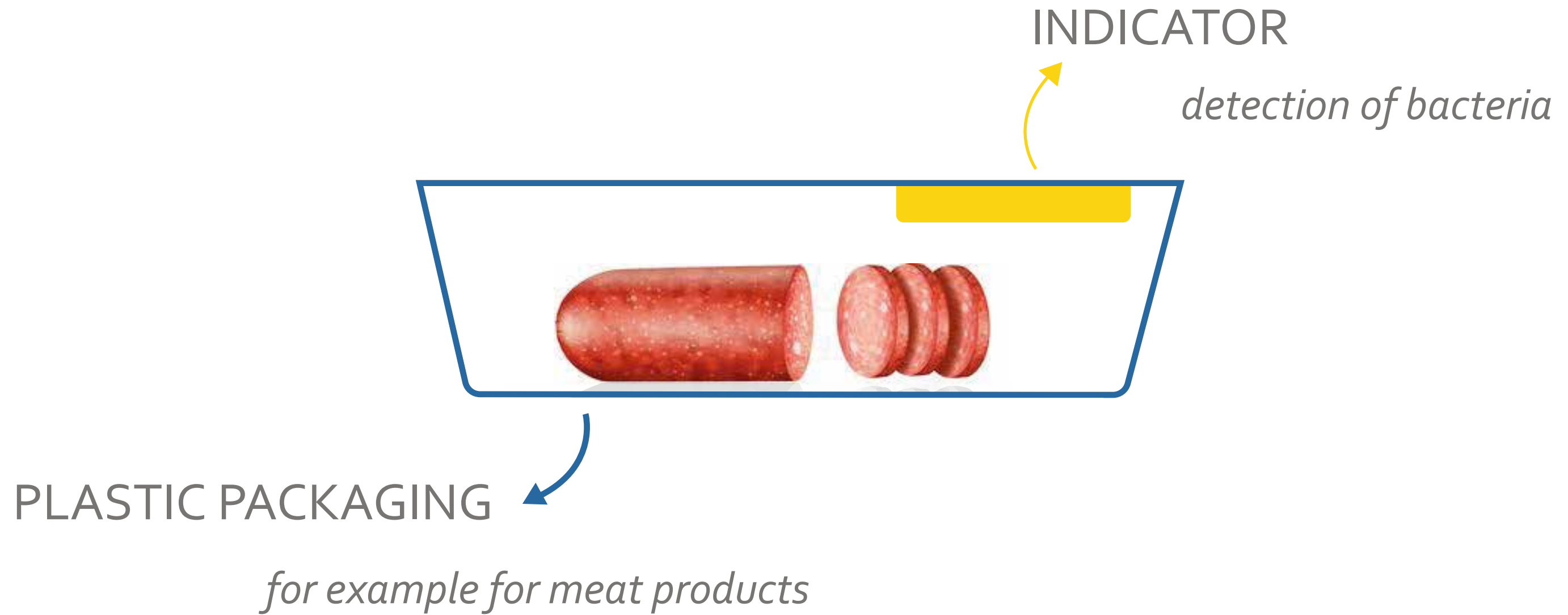
COST FP1405 ActInPak aims to identify and overcome the key technical, social, economic and legislative barriers to a successful deployment of renewable fibre-based functional packaging solutions such as active and intelligent packaging.

The Action achieved the objectives by providing an open multidisciplinary platform for the complete paper and board packaging value chain and had a strong involvement of industrial partners throughout Europe.

Sustainable fibre-based packaging materials with new and active functionalities may help to introduce new products on the market with higher value and profits for paper and board manufacturers than traditional products.

# Intelligent packaging

*Demonstrator 1*





## YouTube video



<https://www.youtube.com/watch?v=3b-InxkziP8>

# Active packaging

*Demonstrators 2 & 3*

MODIFIED ATMOSPHERE

OXYGEN SCAVENGER

*applied as a label  
on interior of packaging*



PLASTIC PACKAGING

*for example for pre baked bread*



Active label improves quality  
& durability of product by  
removing oxygen



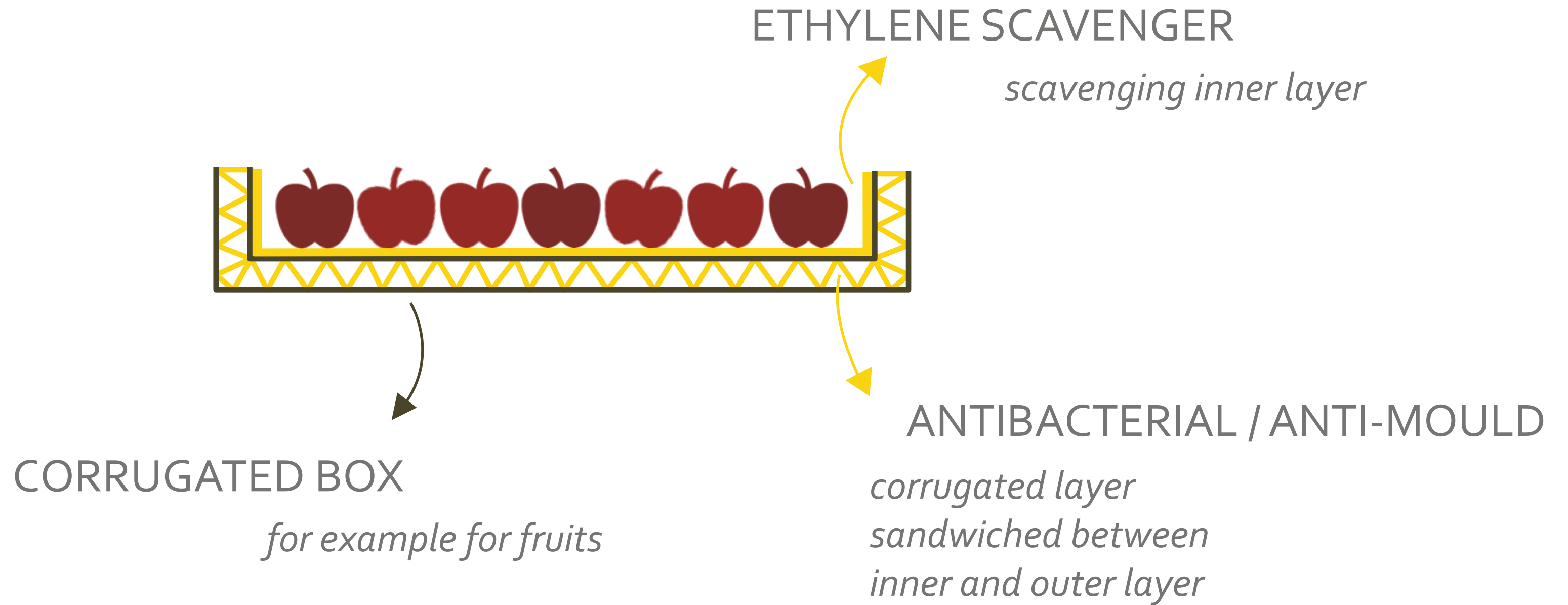
ROBUUST  
vloerbrood meergroten



MET DESEM BEREID

Het deesem krijgt meer dan 20 uur de tijd om te rijzen.  
Daarna wordt het brood op de ovenvloer gebakken en krijgt het  
een knapperige korst, een open structuur en een intense smaak.





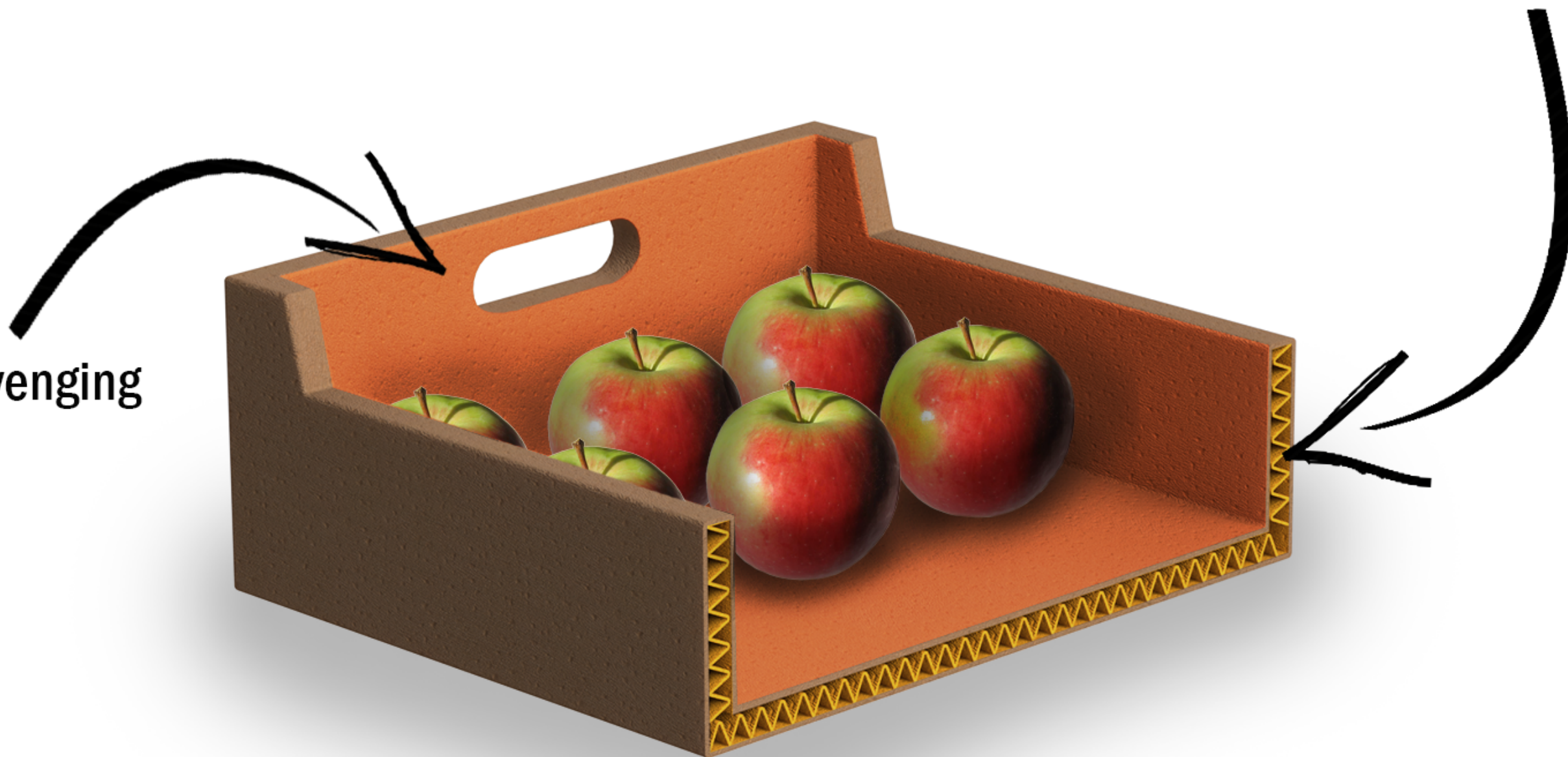


# Corrugated Box

Fruit example

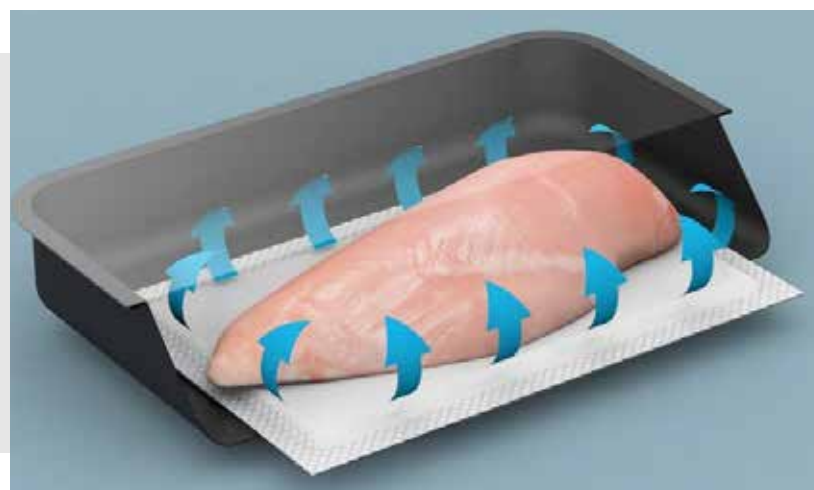
Antibacterial / anti mould  
Corrugated layer sandwiched  
between inner and outer layer

Ethylene scavenging  
inner layer





ActInPak is a pan European (COST) network of the leading experts in active and intelligent packaging of 209 academic institutions, 35 technical centers and 83 industrial partners of 34 different countries.



Main goal is to develop a knowledge-based network on sustainable, active and intelligent fibre-based packaging in order to facilitate its introduction on the market.

# Acknowledgement

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COST is a funding agency for research and innovation networks.  
Our actions help connect research initiatives across Europe  
and enable scientists to grow their ideas by sharing them with their peers.  
This boosts their research, career and innovation.



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