

Arla Foods verdens **fjerdestørste** mejeriselskab



3,5 glas til alle



Til månen



7 gange

Rundt om
jorden



47 gange





9 mia. mennesker
i 2050!



Efterspørgsel
på naturlige og
sundere
produkter



Prøv
mejeriprodukter
på nye måder



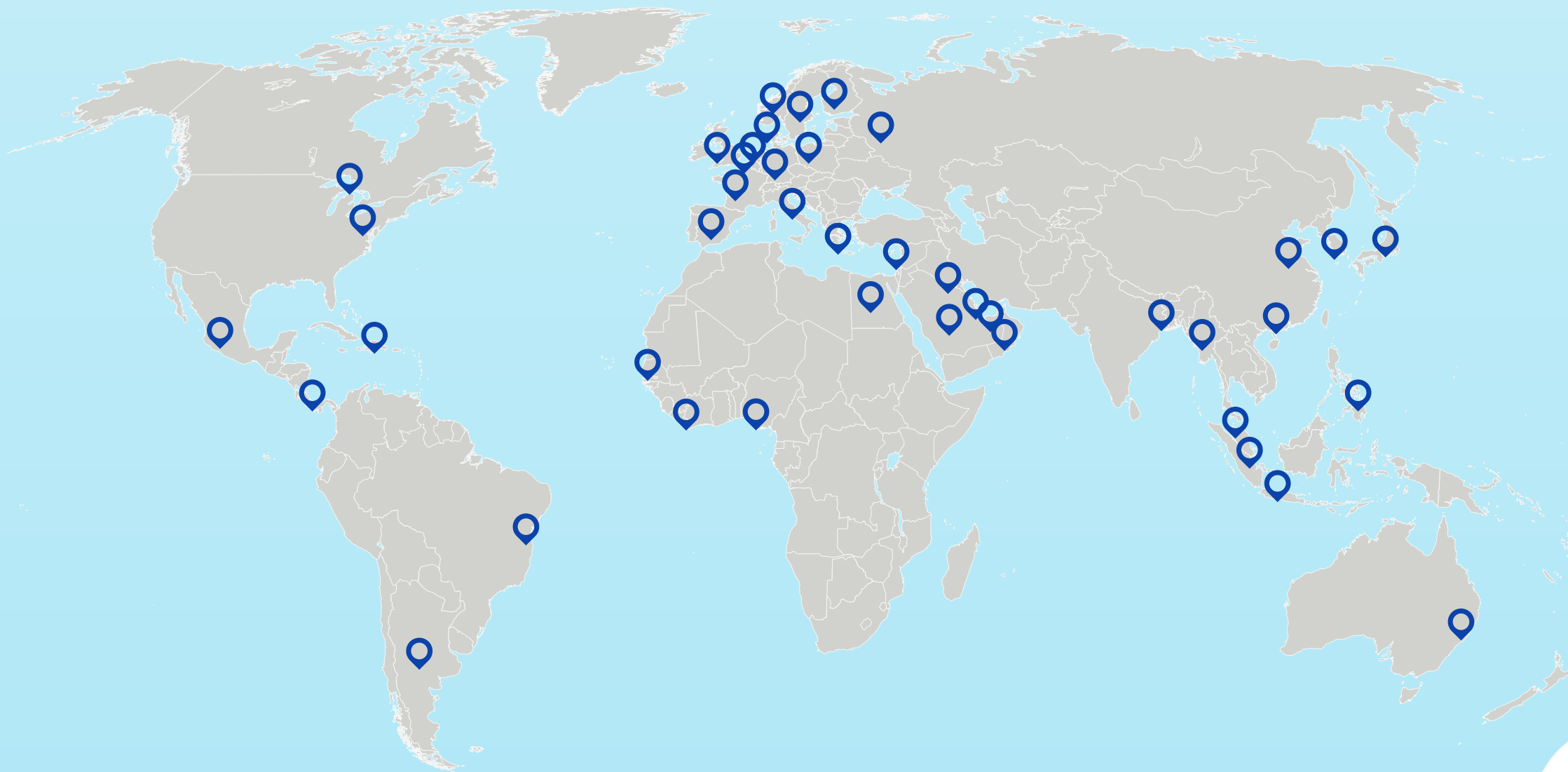
Der er forskellige
behov – livsstilen
ændrer sig



Flere mennesker
har råd til og
efterspørger mejeri-
produkter



Arla i verden



Vi vil fokusere på **6 regioner**





Delivering premium products to the world may be a challenge

Need for more awareness and understanding what effects quality and shelf life throughout the value chain



Manufacturing

More natural products (no preservatives)
New products with different composition – less salt or fat, added fibres etc. (often less robust products)
Optimisation –tailormade and optimized choice of packaging.

Logistic & local handling

Longer and more harsh logistics and handling
Exposure to high temperatures for a long time
Long turnover (less fresh products)

Consumer/customer

Product understanding and use
Storage and handling

How do we work today

Marked demands is analysed and gives properties for packaging materiale



Supply chain
"out of date"

No cooling

SUN light on produkt

Shelf life,
volume - etc

Properties

light barrier(SUN)
Oxygen Barrier
H₂O barrier
45° maby more in the sun??
No cooling.
Supply chain "out of date"
Shelf life 1 year
Volume 177 ton(year 1)



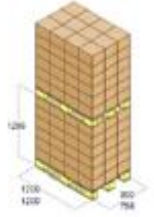
Then we need to understand logistic path to get to the destination. Ship, train, location for reloading etc.



calculated stress factors



Primary packaging	Flow pack
Weight, kg	4.2 kg
Product / packaging	1
Barriers (complete packaging)	no support
Envelope	
Dimensions, (individual)	292 mm * 257 mm * 175 mm
Design	left 0201
Plate type	C
Outside dimensions	300 mm * 265 mm * 191 mm
Pallet type	
Pallet type	euro pallet - 800 x 1200
Weight of tom pallet	25 kg
Stack	
Antal lag	6
Emballager pr. lag	12
Uthæng i længde	none
Uthæng i bredde	none
Slædemærker	column (minor displ.)
Bundtving	no wrapping
Log	
Operating 8.00 uger	Calculating
Resultat	
2 stacked	Profile cooled +95 % (+condensation)



Having the destination information the actual construction takes part. Testing and calibration of equipment

Along with the supplier and the PTU manager we always run the necessary tests at the production line

To ensure the information of the tests we always make a test report

Responsible for test: XXXX	REPORT TEST OF PACKAGING Folds, bricks, bags, cut-lids etc.	Test no.: XXXX - YYY - Z
Date: XX.XX.XX		No. of pages: 1 of 5

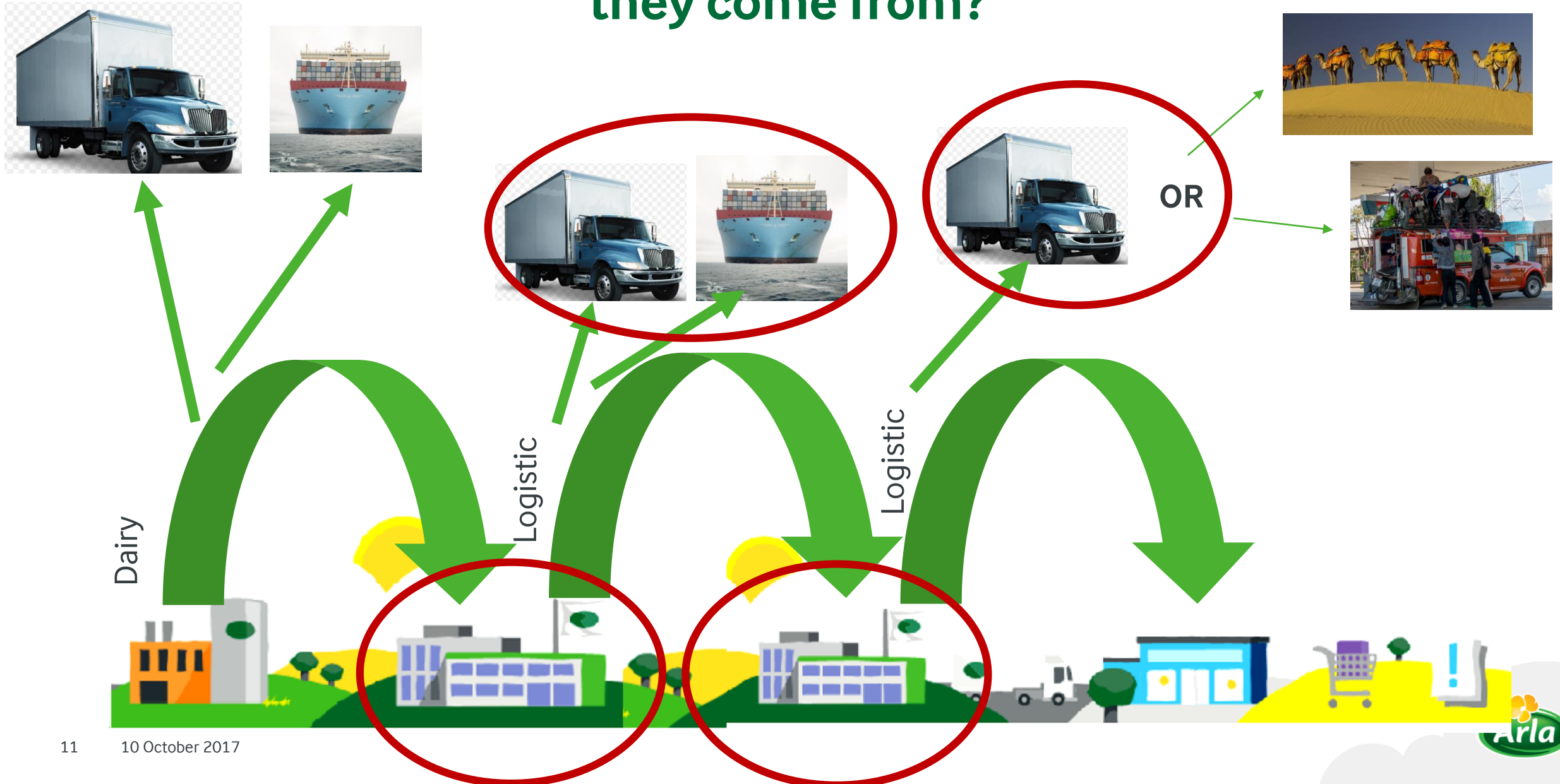
TEST REQUEST (to be completed by Packaging Engineer)	
Packaging description (including type)	
Supplier	
Material structure	



Testing secondary packaging



What kind of transpotation damage do we see and where do they come from?



Claims from market: PACKAGING/LOGISTIC/TRANSPORT challenge



Insect found in one container in Feb. 2016

TRANSPORT COM:



Water drops in containers

TRANSPORT COM:



Holes in containers



Cheese Moulded due to hole in the package



Deformed package



Good shortage



Cap area deformed



Package leakage

Goods shipped oversea in container arrives in bad condition after loading with too much space between the pallet

We need to secure our products in the container so the pallets are stabilised and **can not** move around when a wave hits the ship

<https://www.youtube.com/watch?v=6KP4bKqewiM>



THE PERFECT CONTAINER

Is packed without space between the pallet

