



**AkzoNobel**

**Malaysian Dutch  
Business Council**

**‘A Healthy & Productive  
Workplace’**

**... the benefit of paint**

July 3<sup>rd</sup> 2020

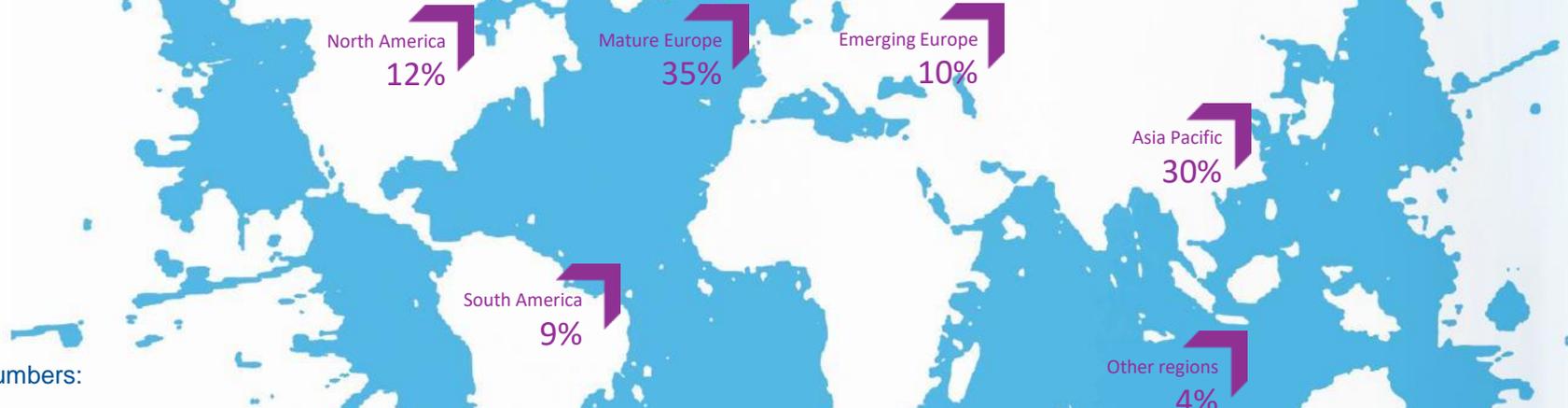
## Agenda

- Snapshot of AkzoNobel
- People Planet Paint
- Health & Well Being – Indoor Air Quality
- Some Chemistry
- Product
- Summary and glance at the future

# A global paints and coatings company

**AkzoNobel**

2019 revenue  
by destination:



2019 in numbers:

**€9.28 bln** revenue  
**€991 mln** adjusted operating income  
**€841 mln** operating income  
**€2.53** earnings per share  
**33,800** employees



## Decorative Paints

Regions of the world

- ↗ Europe, Middle East and Africa
- ↗ South America
- ↗ North Asia
- ↗ South East & South Asia

Key brands:



# People. Planet. Paint.

# AkzoNobel



**Health & Well-Being**



**Productivity**



**Durability**



**Waterway**



**Energy Management**



Health &  
Well-Being

- No doubt it is a global trend
- Consumers are increasingly educated and informed
- The home and office environment is key... people seek a more positive physical and emotional balance in their living space
- For Dulux, the Health & Well Being platform is focused on improving Indoor Air Quality (IAQ)

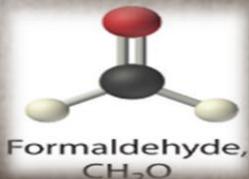




Health &  
Well-  
Being

## Poor Indoor Air Quality due to...

Biological  
growth



Emission from  
Household Furnishing

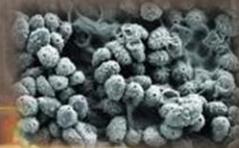
VOC's from cleaning  
chemicals



Bacteria



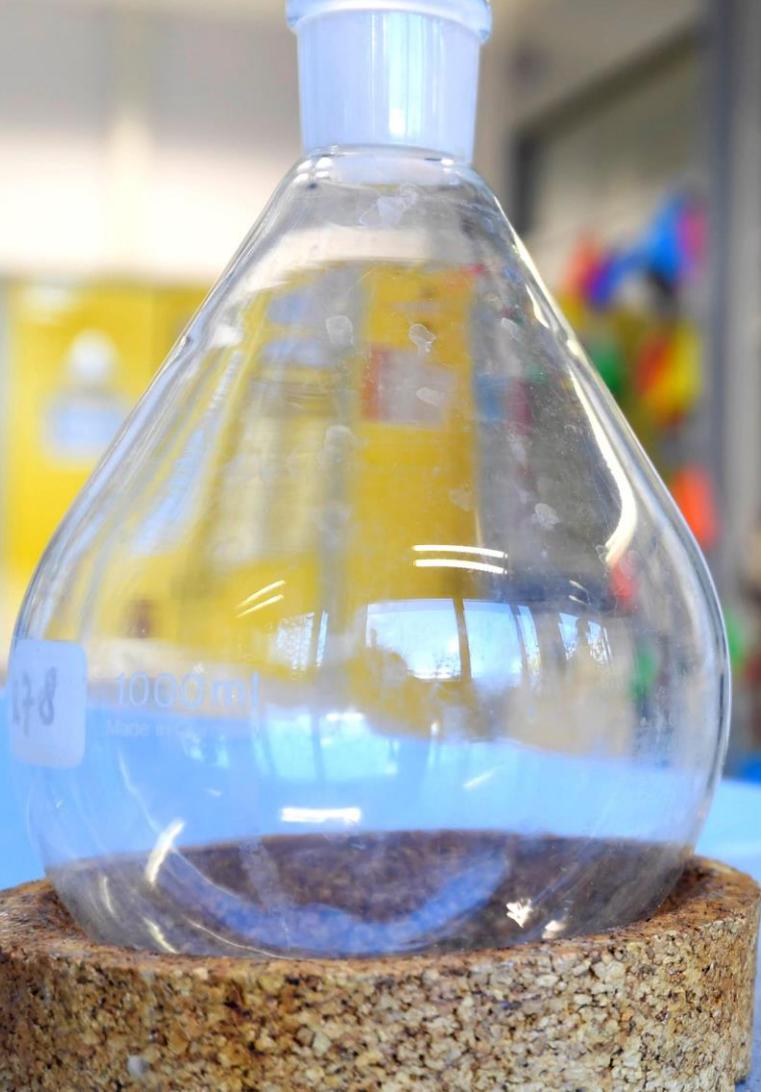
Mould



... can be inhibited by use of active ingredients in paint

**AkzoNobel**

Now the  
chemistry bit!





Health &  
Well-  
Being

# Bacteria



The complicated chemistry can be summarized as the ingredient(s) in the paint inhibits the growth of bacteria, such as

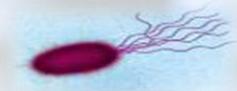
Ecoli



MRSA



Pseudomonas  
aeruginosa



... and many more

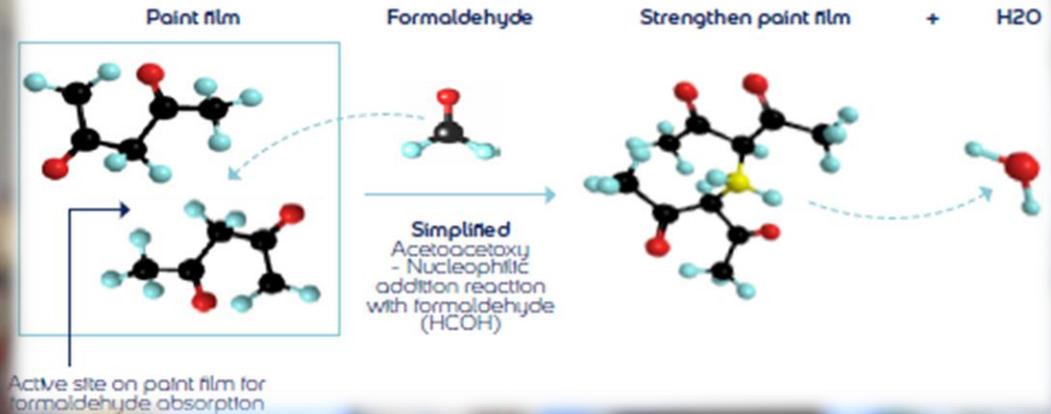
(Tested to Japanese standards)



# Chemical - Formaldehyde

## More chemistry

Fundamental of Air Purifying Performance



The paint ingredient(s) can absorb formaldehyde from areas such as carpets and other fabrics

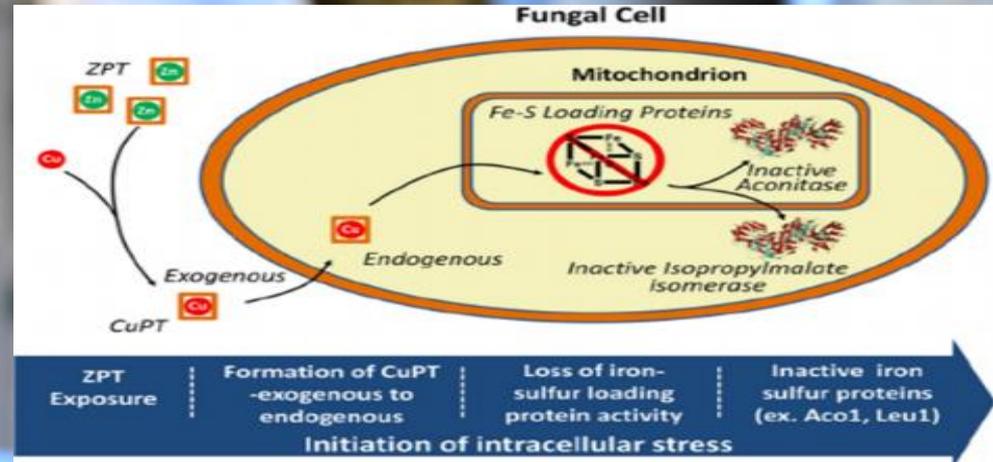
...the nice thing about this chemistry is that the reaction forms water



Health  
&  
Well-  
Being

# Mould

... and the final bit of chemistry



The paint ingredient(s) inhibit the growth of mould under humid conditions

\* Mould is a type of fungus

# Products



Dulux Professional Diamond Refresh is a premium quality, odour neutralizing, anti-formaldehyde paint. It basically neutralizes formaldehyde, a common indoor air pollutant. It also comes with fungus and mould resistance making it suitable for all indoor surfaces.

- Neutralise formaldehyde and reduces the VOCs in the air – complies with JC/T 1074-2008 “Purification Performance test method”
- Low VOC – complies with the Singapore Green Labelling and Sirim Eco-Label criteria.
- Superior washability.
- Anti-bacteria – complies to JIS Z2801 Anti-Microbial Test.
- Mould and Fungus resistant.
- Excellent alkali resistance and adhesion properties.



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- ✓ Low VOC - complies with the Singapore Green Labelling and Sirim EcoLabel criteria
- ✓ Superior washability
- ✓ Anti-bacteria – complies to JIS Z2801 Anti-Microbial Test Mould and Fungus resistant
- ✓ Excellent alkali resistance and adhesion properties



# To finish... Summary & Future living spaces



## In Summary

Health & Well Being is a key technology and product platform under AkzoNobel's People Paint Planet umbrella

Focus on Indoor Air Quality quickly shows a number of pollutants present in any interior space

Special ingredients added to the paint are part of the solution to inhibit these pollutants and improve air quality

## The Future

Recent research (post COVID-19) shows an increased consumer awareness on health and hygiene

Most importantly, both Government and Private investment will strive for 'healthy' buildings... of which paint and coatings are a key part

The home may well become the office as well

AkzoNobel continues to develop technology for the future with the **latest product launch incorporating bio-based materials**

# Thank you

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