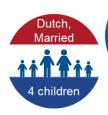


Introduction

AkzoNobel







Technology Coordinator **Coatings Group**

1994

R&D Director BU Automotive & Aerospace Coatings

2003

Chief Technology Officer Paints & Coatings

Changes in the industry



1984

courtaulds

1998

R&D Director **BU Industrial Coatings**



AkzoNobel



2012

RD&I Director BA Performance Coatings

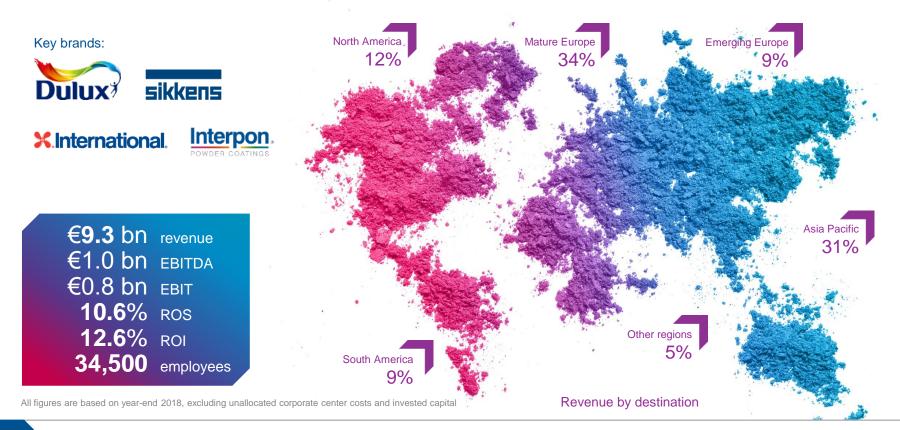


Researcher in R&D Automotive OEM

> R&D Manager Automotive B-NL-UK



A focused Paints and Coatings company



Our Networked Technology Centers

€1.25 billion spent on R&D in the last five year

3,000

scientists employed worldwide

3,100+

patents owned by AkzoNobel

global technology centers

igsville, USA ~50





AkzoNobel

Shanghai, China ~150



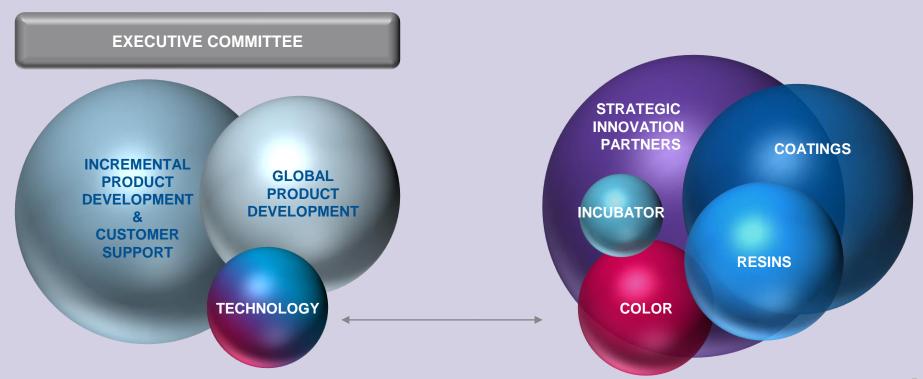
ssenheim, NL ~3<mark>70</mark>



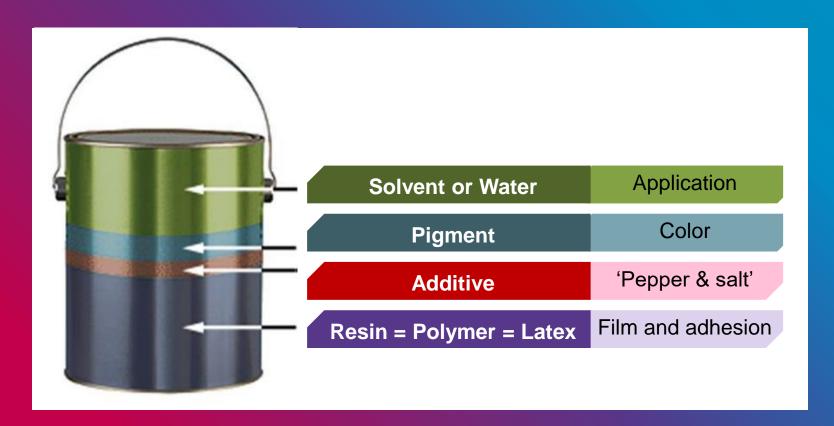
Bangalore, India ~120



Delivering Innovation by Research & Development



What is paint and why use it?

























Protecting the world: Intersleek®

1st biocide-free coating for the shipping industry

AkzoNobel



Innovation

Pioneering slime-release technology

Sustainability
Carbon credits,

biocide-free

Performance

Long-term efficiency, fuel savings

Since 1996 over **5,500** applications

> Over \$3 billion fuel costs & 32 million tons of CO2 saved





1st bio-based interior wall paint in China

Bio-based with active bamboo ingredient low-VOC mould-resistant anti-bacteria





Lead in Sustainability

Deco China





Meeting growing demand for sustainable customer solutions



Big Data and Artificial Intelligence

AkzoNobel

Color development to the next level by A.I.

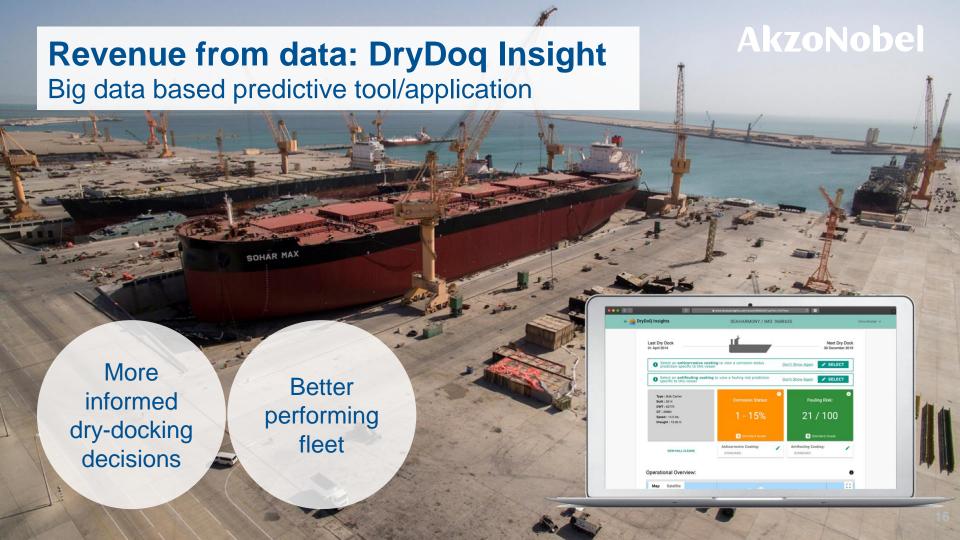
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Data offers routes to new revenue models

HTE

High Throughput Experimentation

Surfaces with sensors become data generators









BENOND

Expectation

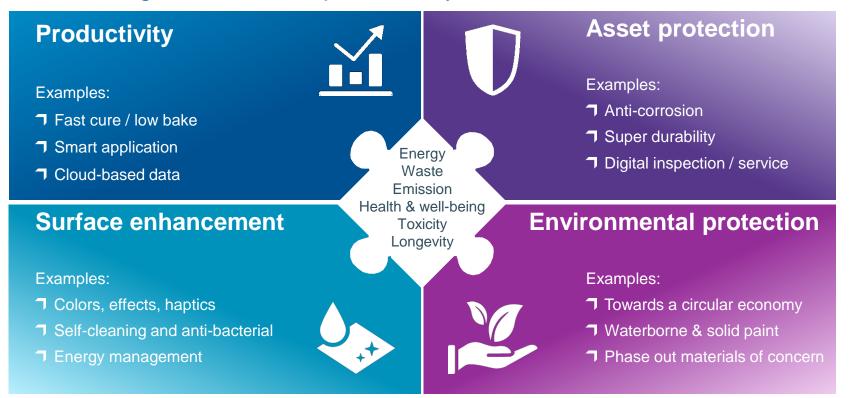
Imagination

Generations

Innovation drives Sustainability

AkzoNobel

value selling and resource productivity



"Whatever industry you are in, the biggest change will most likely come from outside"



Networked innovation and collaboration is the key to success

- **¬** Customers
- Suppliers
- Academia
- Startups



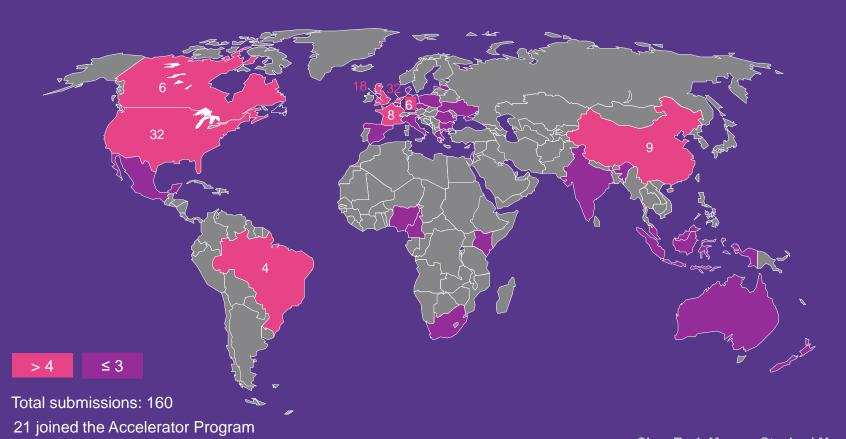
Challenge Themes 2019:

- Smart Application
- Circular Solutions
- Enhanced Functionality
- Life Science Infusion
- Predictable Performance

The **AkzoNobel** startup challenge

Powered by *KPMG*

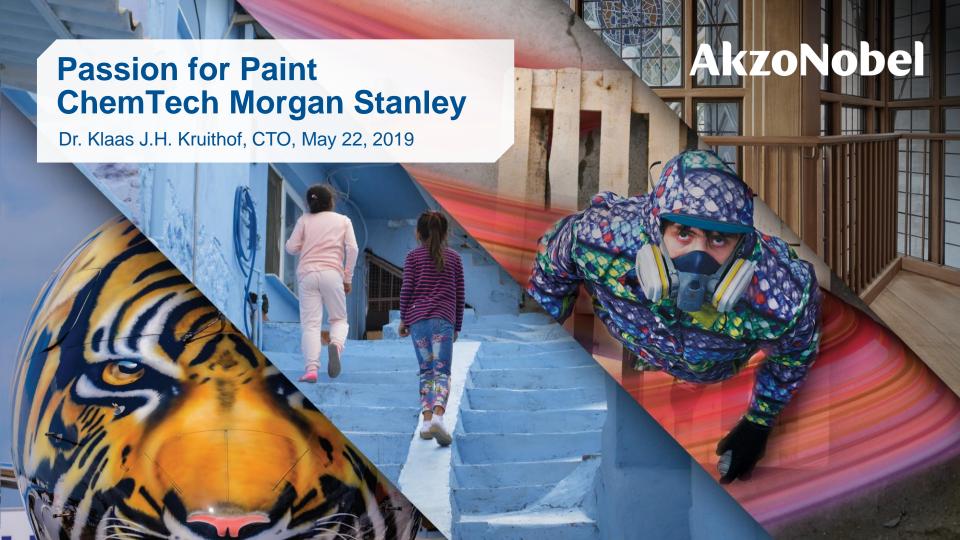
Paint The Future Challenge 2019



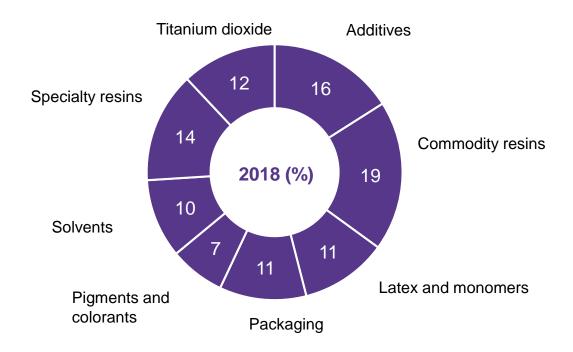








Breakdown of total raw material spend



Disclaimer/forward-looking statements

AkzoNobel

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This presentation also contains statements, which address such key issues as AkzoNobel's growth strategy, future financial results, market positions, product development, products in the pipeline and product approvals. Such statements should be carefully considered, and it should be understood that many factors could cause forecast and actual results to differ from these statements. These factors include, but are not limited to, price fluctuations, currency fluctuations, developments in raw material and personnel costs, pensions, physical and environmental risks, legal issues, and legislative, fiscal, and other regulatory measures as well as the sale of the Specialty Chemicals business. State competitive positions are based on management estimates supported by information provided by specialized external agencies. For a more comprehensive discussion of the risk factors affecting our business please see our latest annual report., a copy of which can be found on the company's corporate website www.akzonobel.com