### **Open Innovation: collaboration from industrial perspective**

Andre van Linden – Director Scientific Academic Partnerships

#### People. Planet. Paint.

### AkzoNobel

### People.

We care about people and communities, a passion that's reflected in our commitment to safety, integrity and sustainability.

#### Planet.

We challenge ourselves and our partners every day to be better global citizens and protect the future of our planet.

#### Paint.

We keep pushing boundaries to develop pioneering paint solutions that make a world of difference.



## Creating value through collaborative innovation

PAINT THE FUTURE **kzoNo** 

























#### **PTF = collaborative innovation**

### AkzoNobel



# READY TO STIR THINGS UP?

THE CHALLENGES

CIRCULAR **APPLICATION** SOLUTIONS

SMART

**ENHANCED FUNCTIONALITY**  LIFE SCIENCE INFUSION

PREDICTABLE PERFORMANCE



### SMART APPLICATION

How could your solution change or improve the way customers apply our products?

The job of painting can be difficult sometimes – we know! But what if it wasn't? What if it was effortless, hassle-free and waste-free? We're looking to make that dream a reality.



#### CIRCULAR SOLUTIONS

How would your solution enable circular use of materials at any point in our value chain?

AkzoNobel has a strong track record of introducing sustainable solutions, but we want to go even further. We need to do our part in the transition to a circular economy. Let's find new ways to reuse materials or eliminate waste.

#### ENHANCED FUNCTIONALITY

What exciting new functionality can your technology offer to make coatings cleaner, more responsive or adaptive?

Coatings are unsung heroes. Of course they color and protect materials, but they can do much more: resist heat and radiation, reflect light, make surfaces more aerodynamic and the list goes on. We are looking for new abilities that can surprise us.

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#### LIFE SCIENCE INFUSION

How can your solution, containing bio-active technology, help bring better performance or innovative features to our coatings?

Like artists, we find inspiration in the world around us. The paint and coatings we create – and the science that makes them possible – can be inspired by nature and the environment.

Bio-active ingredients open up exciting possibilities for coatings that act in new ways, perform better and are more sustainable. We want to explore the unknown.



#### PREDICTABLE PERFORMANCE

How can we collect and augment data more innovatively so that our predictions for real world surface performance become more accurate and efficient?

Being predictable isn't always a bad thing. People depend on the performance of our coatings, so we need ways to reliably test, measure and anticipate performance under all kinds of conditions.



#### **HOW DOES IT WORK?**

- Join our online platform to start submitting, discussing and enriching ideas January 8 to March 5, 2019
- Selected participants invited to continue brainstorming in closed groups March 5 to March 19, 2019
- Selected candidates invited to join three day event Early April 2019
- Three day event with expert feedback, workshops and pitch presentation coaching Late May 2019
- Winning teams sign agreement to officially collaborate with AkzoNobel End of May 2019

### WHERE CAN YOU FIND MORE INFORMATION?





LINKEDIN PAINTTHEFUTURE







### AkzoNobel

#### SolCold

ACTIVE COOLING EFFECT with natural sunlight

- Zero im plem entation & maintenance
- Anti-Stokes Fluorescence patent technology
- Cools 5 15 C with sunlight





#### Turning paper trash into paintworthy treasure

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We're collaborating with Alucha on a technology that recovers calcium carbonate from paper sludge, which we can use to make paint. It's a more sustainable, circular way to source this mineral. Alucha secured the partnership through our 2019 Paint the Future global startup challenge.

#### **ARC-CBBC:** Biobased raw material

New way to produce reactive biobased materials from furfural towards butanolide • By using light and a bit of heat.

- Next is maleic anhydride or acrylic acid .
- And upscaling in flow process.

Biomass



A General strategy petrochemical-based vs. bio-based

Current production.

#### **Succesfactors**

### AkzoNobel

#### **Startups**

- **Prepare challenges to communicate**
- Fit with company strategy
- **Open communication lines**
- Added value from all partners
- Avoid external lines around same subject
- Demonstration day
- Win Big or Fail Fast



#### Consortia (PPP)

Enough innovation power to bring new ideas
Preferably a 'running train' somewhere
Options for feedback and steering
Enough leverage (subsidy and companies)
Find the mix of properly balanced partners
Blend New and more Applied Science
Properly focussed research topics

#### In general

- Media channels complete!
- Enough and quick follow up assured
- Protect IP rights of all parties