

World Materials Forum, June 29-30, 2017

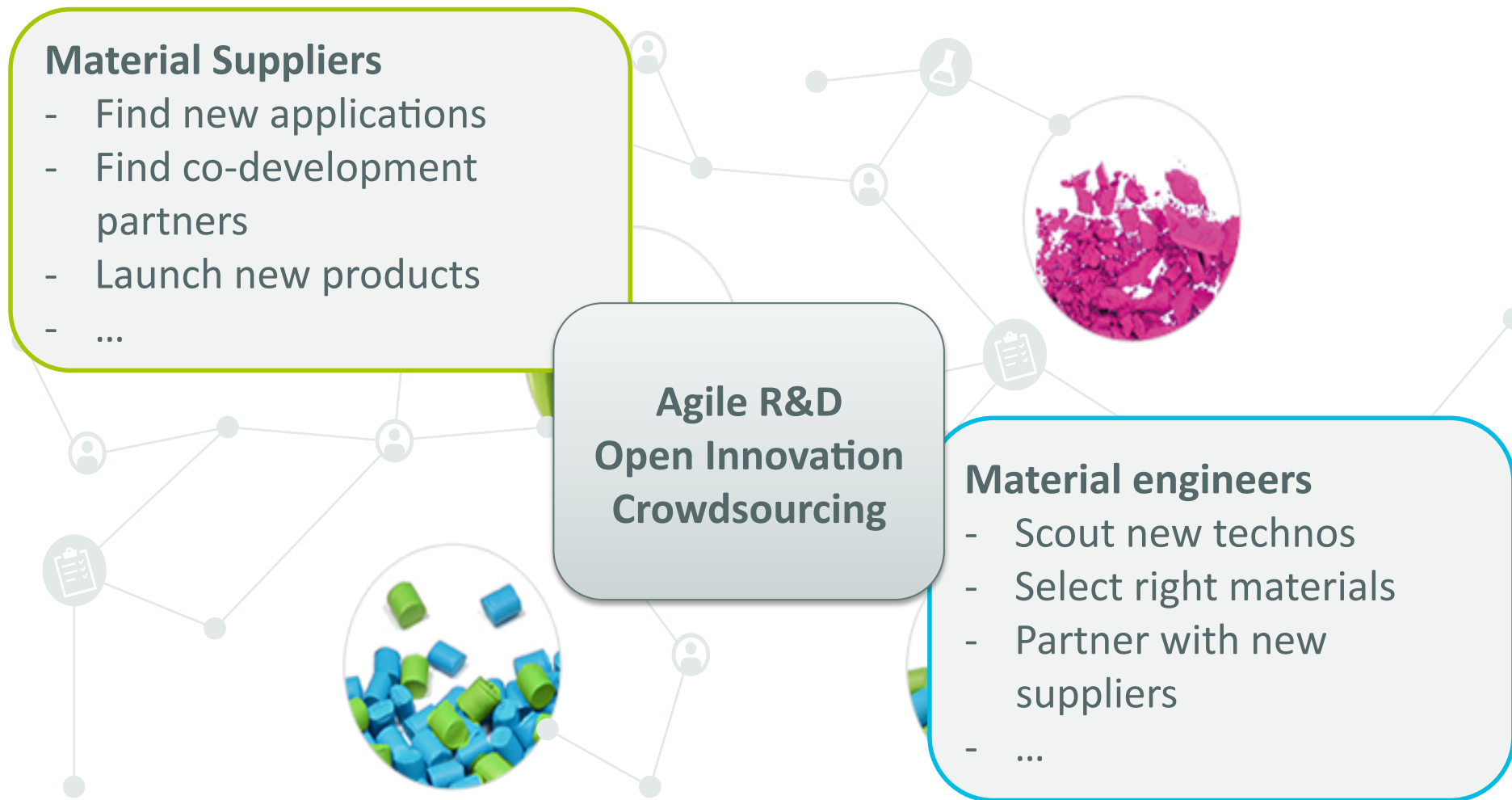
Christophe Cabarry
(CEO)

Crowdsourcing Material Solutions To Enhance New Mobility



Materials innovation is not only in Products

Using online networks: faster innovation + boosted success rate



New Technologies looking for Applications

Strategic marketing services, incl. crowdsourcing, to find application



Applications and co-dev partners found within future vehicles

Self-repairing scratches vehicle interior surfaces (door panel, dashboard...)

Publication + Crowdsourcing on SpecialChem Online Network

Material Concepts



Self-repairing paints

Self-repairing tyres



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Car engineers looking for new solutions



“Seeking A Curved Display To Be Bonded To Glass Or Plastics For Automotive Interior Applications”



A dozen of proposals received

Ready-to-use technologies

Emerging technologies

Request For Proposal

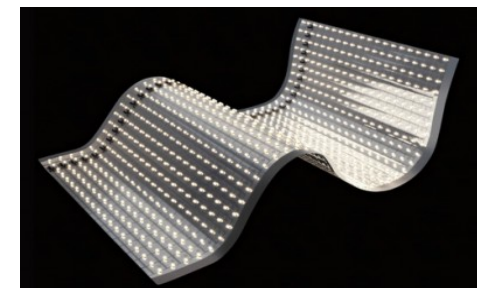


Publication + Crowdsourcing on SpecialChem Online Network

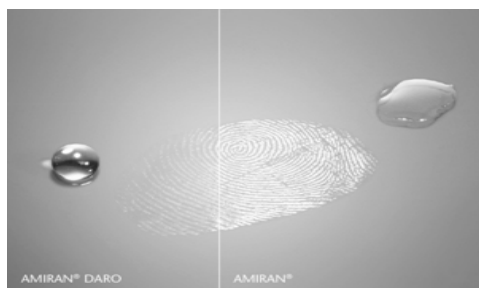


Mobility technologies: scouting missions ran

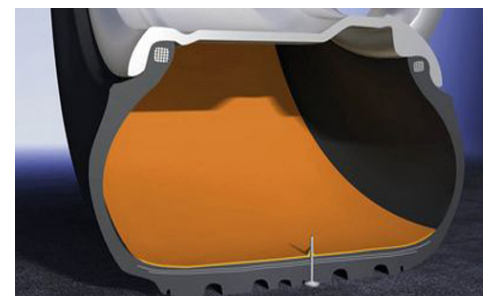
“Seeking Optical Coating To Guide Light in Transparent Polymer”



“Seeking Anti-fingerprint Technology to Improve Appearance of Screens”



“Seeking Self-sealing and Puncture-proof Solution for Passenger Tyres”

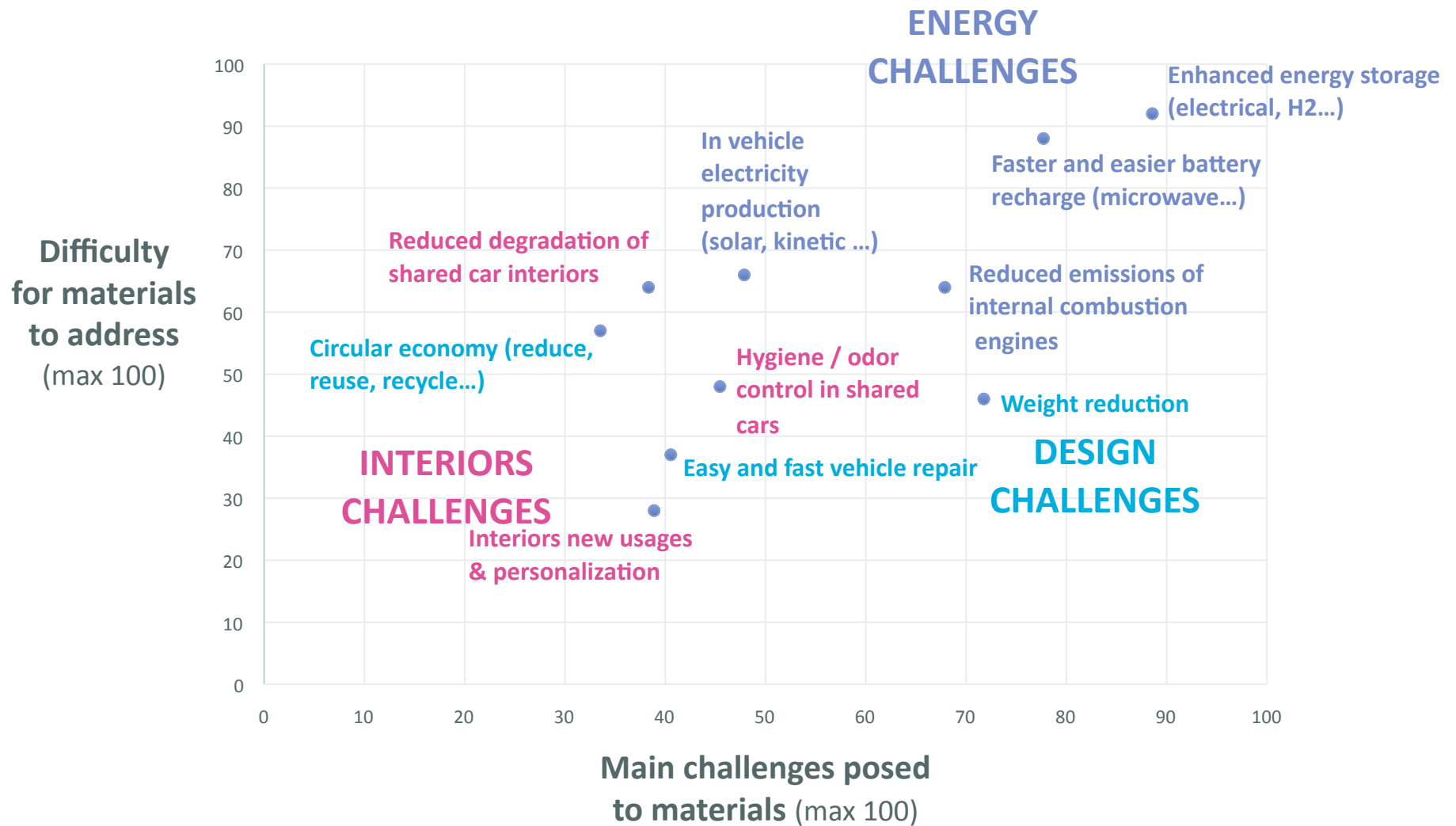


“Seeking Scratch Resistant Technology for Talc Filled Polyolefins”



New mobility: top challenges for materials

We asked our community of materials engineers



>2020 : “out of the box ” + out of the road

What about using virgin spaces like air and rivers?



Clear mobility trends, unclear materials outcome



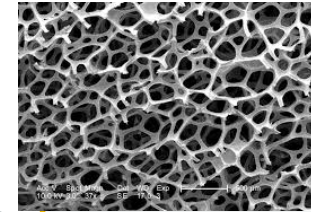
CLEAR MOBILITY TRENDS

- Autonomous driving
- Electrification
- Buying mobility and sharing vs owning
- Cars with specific usages



CLEAR GOVT. NEEDS

- Less Pollution
- Less Accidents
- Less traffic congestion



CONTRADICTION MATERIALS TRENDS

- Lighter cars
- Battery heavier than ICE
- Reduced safety margins
- Growing car production
- Circularity: re-use, reduce, recycle
- Higher usage intensity
- More renewable materials
-

Overall reduction of material consumption?
On avg per car? Overall in industry?
UNCLEAR

Material innovations are badly needed
Higher value per kg of materials
CLEAR