

WE CAN
DO SO
MUCH
TOGETHER



To Impulse the Uptake of Nanotechnology based Solutions



Index

Izadi-Nano2Industry Project

At a glance

Key features

Strategy

TRIBOnano PILOT

HARDcast PILOT

ESTCRATCH PILOT

Izadi-Nano2Industry



At a glance



Key features

At a glance



Call

H2020-NMP-PILOTS-2015



Topic

NMP-02-2015-Integration of novel nano materials into existing production lines



Funding scheme

IA – Innovation action



EU contribution

EUR 6.027.653



Coordinated in

Basque Region (Spain)



Consortium

Italy
Denmark
Romania
France
Spain

At a glance

In **IZADI-NANO2INDUSTRY** Injection moulding, Casting and Coating manufacturing processes will be improved by nanotechnology to enable industrial scale production of new performance-enhanced components.



At a glance



Design/Product/Process



Equipment manufacturers



Material Suppliers



End Users



- 1. Injection Moulding, Casting and Coating** PILOTs
for the production of improved components with nanomaterials for
automotive, construction and agricultural machinery.

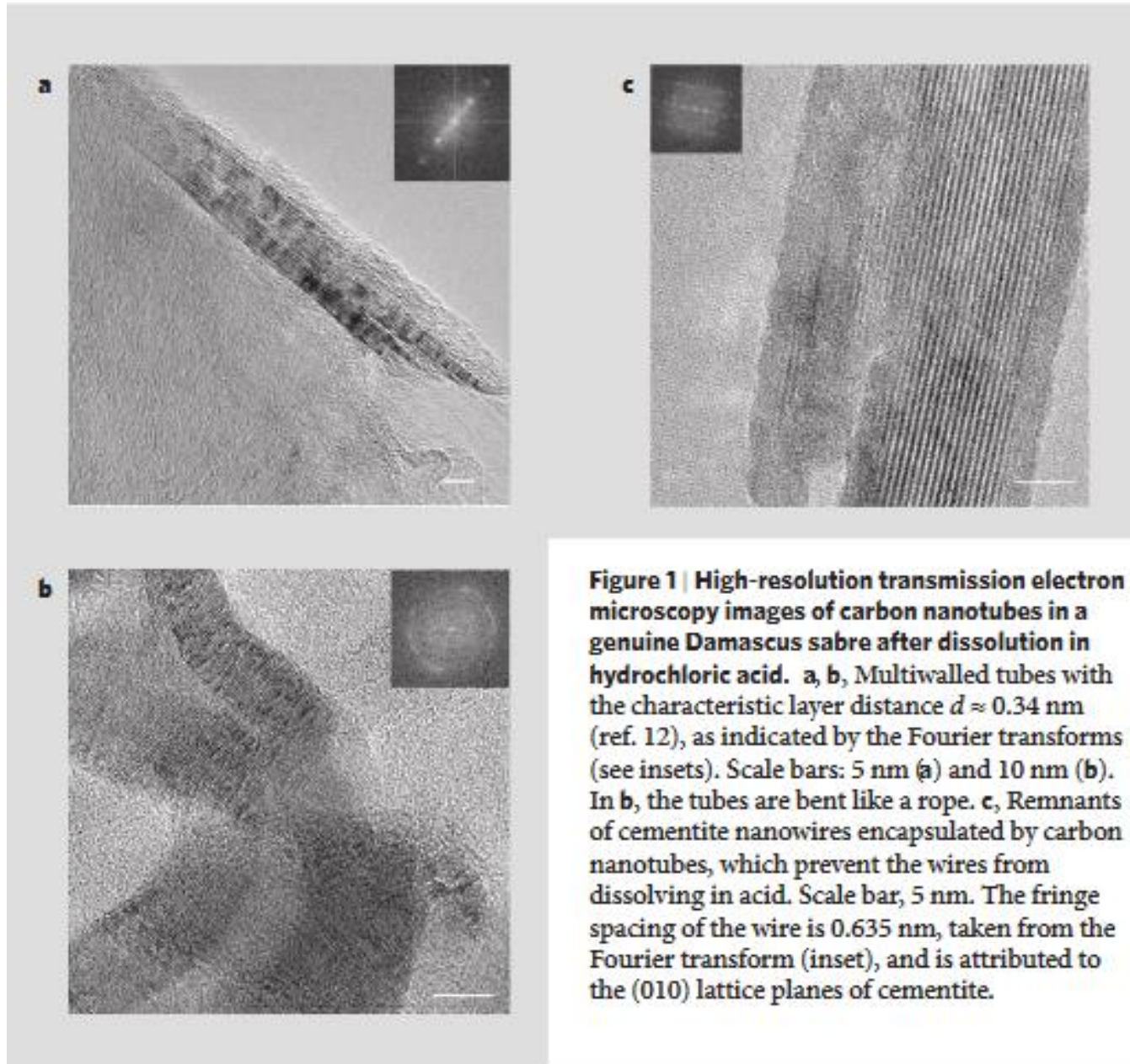
Key Features



Key Features



Key Features



Take the risk or lose the chance

2. TRL 7



Strategy



TRIBOnano PILOT

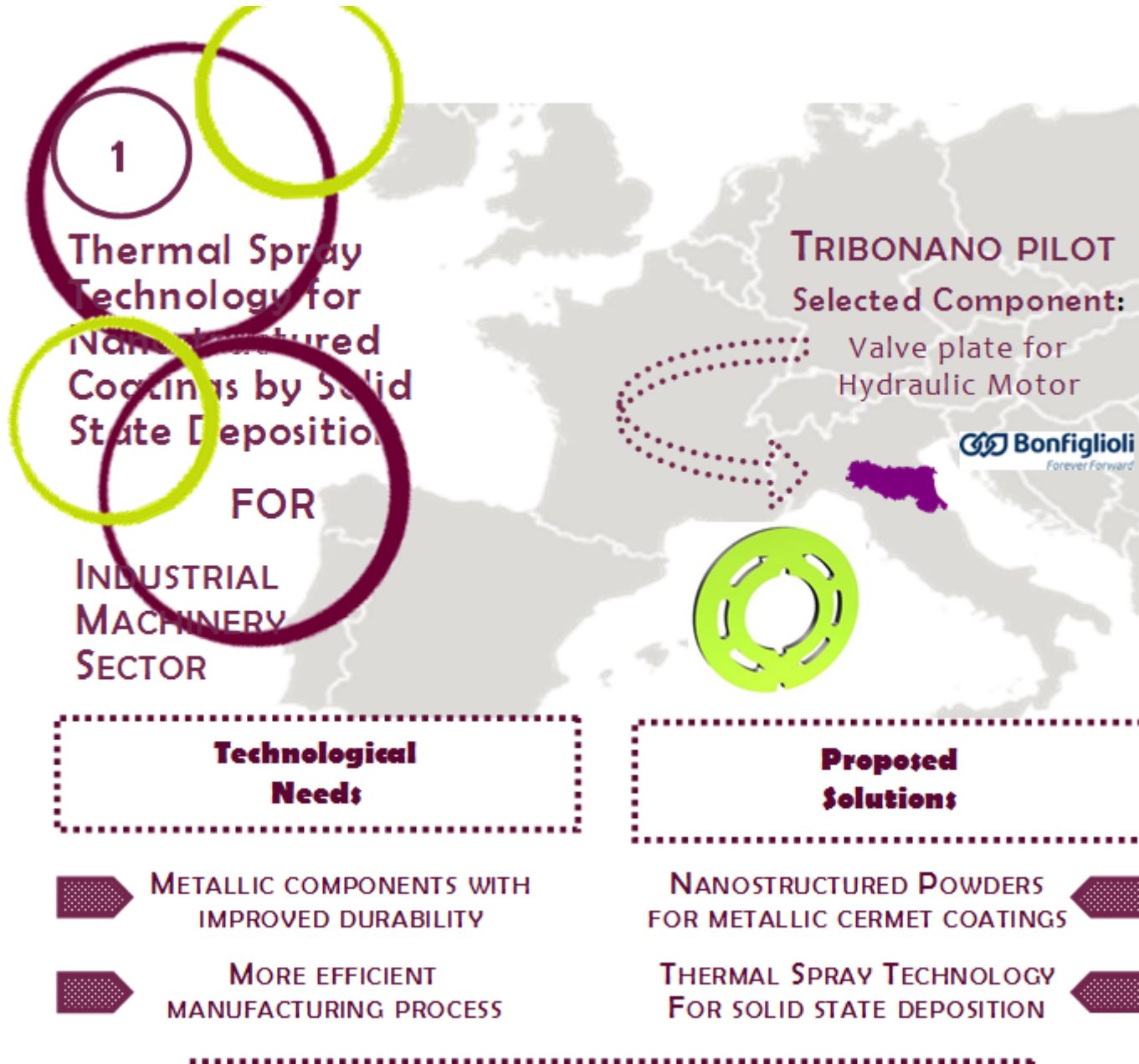


HARDcast PILOT



ESTcratch PILOT

Strategy



Provided Benefits



REDUCTION IN PROCESS COSTS

.....
10% in wear resistance



REDUCTION OF PARTS' MACHINING

.....
-20% of costs associated to the finishing of the component



REDUCTION OF MECHANICAL FRICTION LOSSES

.....
-15%



REDUCTION OF RAW MATERIAL USE

.....
-15%

Early Adopter

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Technology Provider

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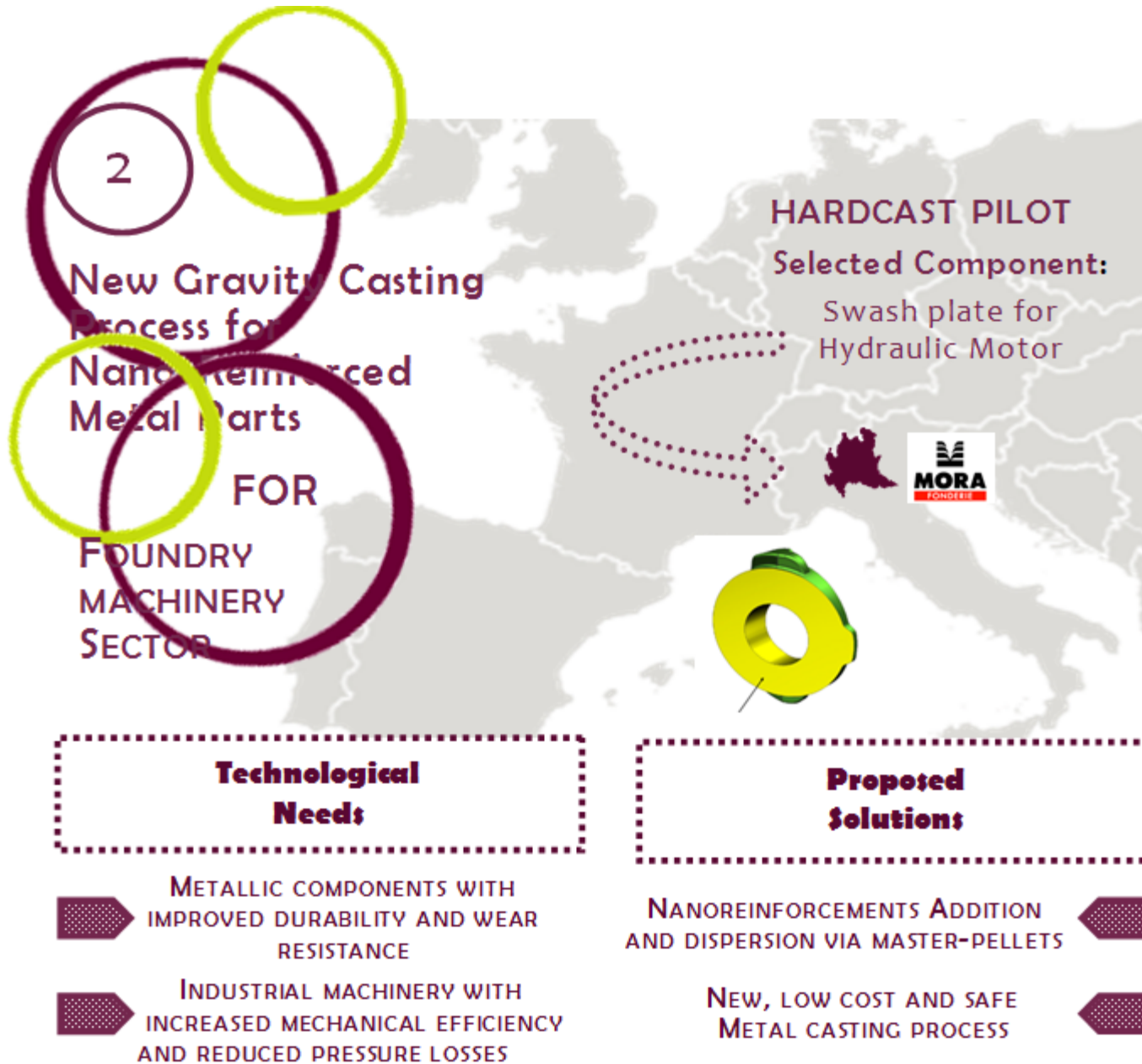


Nanostructured Powders Producer

Delphine Maury
maury@mariontechnologies.com



Strategy



Provided Benefits



INCREASED EFFICIENCY OF THE COMPONENT

+15%



REDUCTION OF POWER LOSSES

-15%



INCREASED COMPONENT'S LIFETIME

-15 % wear/ temperature resistance

Early Adopter

Diego Boroni
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Technology Provider

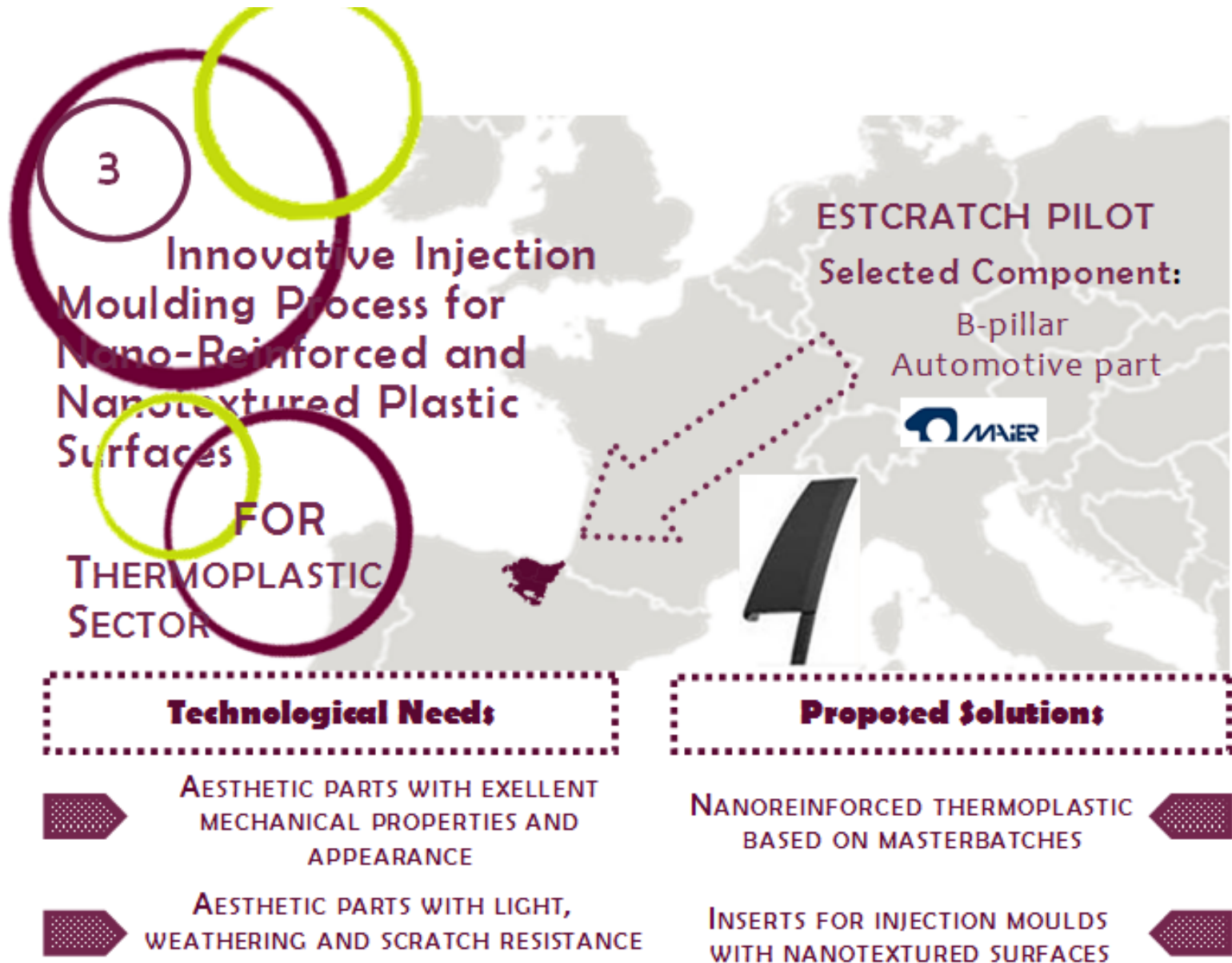
Pedro Egizabal
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Nanostructured Powders Producer

Lucile Cornu
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Provided Benefits



IMPROVED RESISTANCE OF THE MATERIAL

+50%



LESS EXPENSIVE COMPONENTS

-20%



IMPROVED RECYCLABILITY OF THE PARTS



GREENER PRODUCTION PROCESS



MORE COLOUR AND FUNCTIONALITY

Early Adopter

Technology Provider

Masterbatch Producer

Insert Developer

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