



**SOLVAY**

asking more from chemistry®

# World Material Forum

June 23, 2015 - Nancy

Pascal JUERY

# Innovation cycle acceleration is a key megatrend, open innovation is a key enabler

Innovation acceleration



Digitalization & mobility



Miniaturization



Life sciences booming



Information age



Acceleration of cycles



- Open innovation is the way to accelerate
- A multiple approach to build ecosystems
  - Innovation « sourcing » through Venture Capital approach enabling partnerships with start-ups and SME
  - Innovation partnering throughout the value chain
    - From upstream public-private partnerships
    - Joint innovation
    - To downstream go-to-market association

# Partnership: an innovation & growth booster

## 10 year partnership to develop an advanced predictive platform



Worldwide company



SME



Design simulation service  
Win-win partnership

**1 + 1  
= 3 winners**

2 reliable partners  
for 1 satisfied customer

New insights      Inspired people  
**Think out of the box**  
*Creativity*

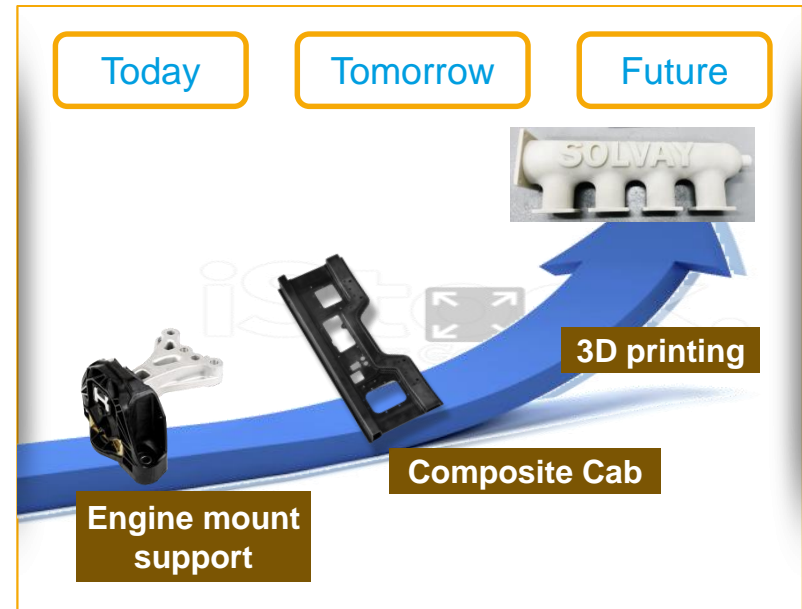
**Flexibility**      *Shared energy & risks*

Reactivity      Larger network      Synergies

Increased Business &      Powerful  
Communication performances      experience & expertise

**For customers**

- 20% – 50% Weight
- 10% – 20% Cost
- 50% Environment impact



# TegraLite™: Building with technology partners a superior portfolio of new lightweight materials

New class of products

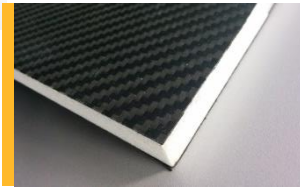
## High Performance Lightweight Materials

- Composites
- Foams
- Sandwich structures



### Tegracore™ PPSU Foams

- Thermoformable



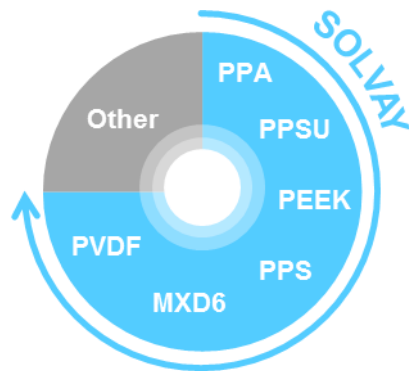
### PVDF Foams

- Injection moldable / direct part production



### UltraMaterials™ Composites

- Semi-continuous process / suitable for mass production



Combining high performance polymers with advanced technologies

# Participants' list to WMF 2015

Company	Business sector	Specialty
PLASTIFIBRE	Construction	Wood-based plastic composites for wall and floor exterior coverage
EPG AG	Automotive – Oil & Gas	Nanoscaled surface treatment for steel protection and functionalization
PROTIP MEDICAL	Medical device	Artificial larynx implant
MAGPIE POLYMERS	Mining & metals	Selective capture and recovery of precious metals in waste water
RONDOL	Pharma & Aero	Polymer processing equipment at the microscale
CARBON CONVERSION TECH.	Auto & Retail	Used tyre recovery and recycling into steel and rubber
COLD-PAD	Oil & Gas	Composite "patch" solutions for on-site off-shore maintenance
BEAM Machines	Auto & Aero	Laser deposition machines (CLAD) for additive manufacturing/3D printing
VISUOL TECHNOLOGIES	Medical & Auto/Aero	Surface defect control & monitoring by reflectometry
METALVALUE	Auto/Aero & Energy	Injection molding of small and complex metal parts
e-Xstream engineering	Auto & Aero	Simulation software for composite characterization
POLY - SHAPE	Medical & Aero	3D manufacturing for small series of special parts

Thank you!



**SOLVAY**

asking more from chemistry®