

Introducing Granta Design

Towards Material Intelligence

GRANTA
MATERIAL INTELLIGENCE

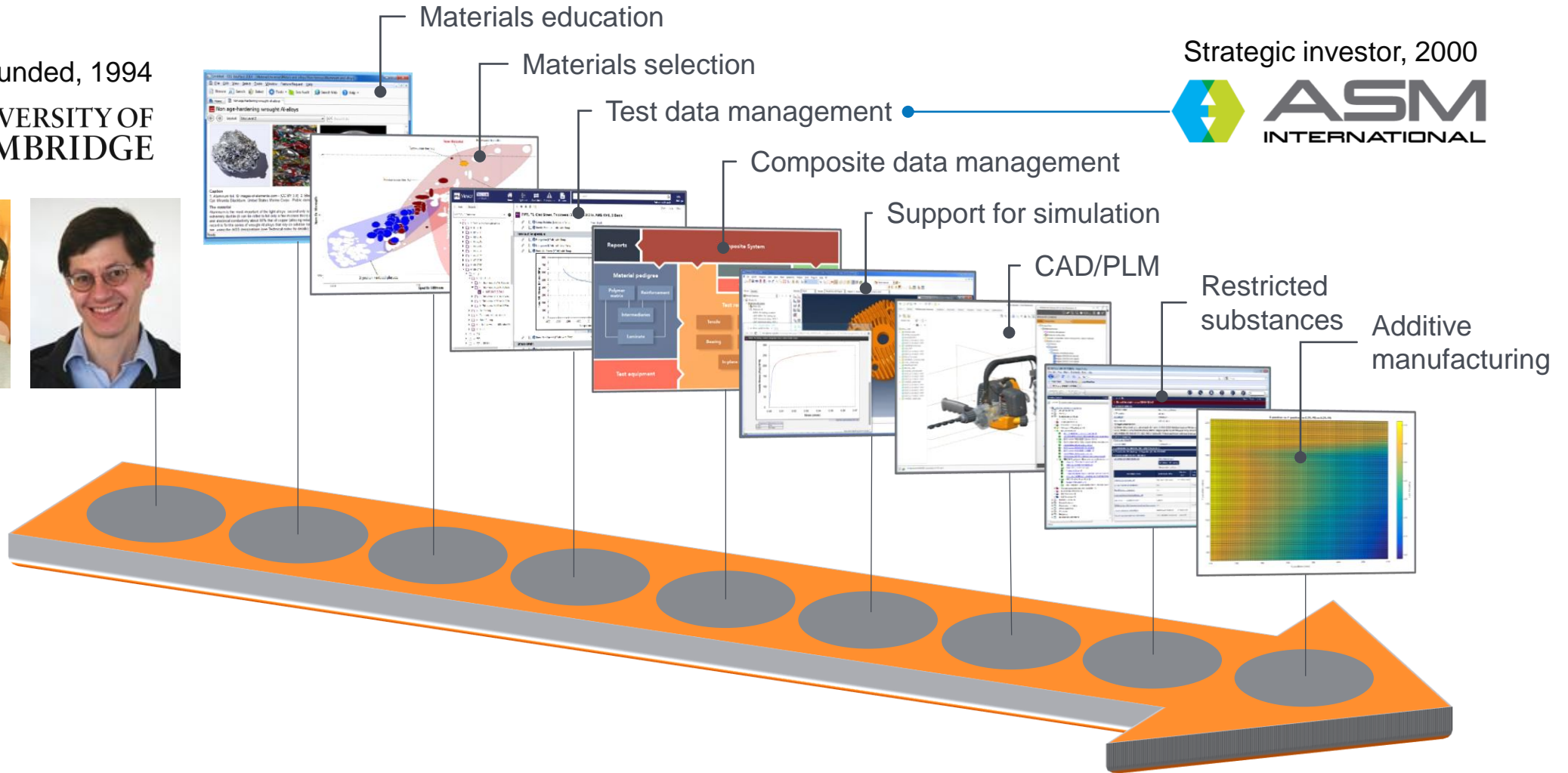
www.grantadesign.com



Granta Design

Materials information technology since 1994

Granta founded, 1994



Granta: towards material intelligence

Our mission is to lead materials information technology – to advance materials engineering and education, and to enable better, greener, safer products.



Build your company's material intelligence

Material intelligence integrated throughout R&D and the product lifecycle. Information when & where you need it. Smart decisions. Capture and re-use of resulting knowledge.

Building society's material intelligence

Help to inspire the next generation of engineers, scientists, and designers to engage with a subject that is vital to technological advances and sustainability.

Software + Information + Services + Network



180 Granta staff

- The world's largest team solely focused on materials information technology
- Unrivalled implementation experience

Sales & Service partners

Our network: consortia, technology partners, materials data partners, industry collaborative projects, and academic collaborations.



Selected customers





Material Intelligence



Rolls-Royce

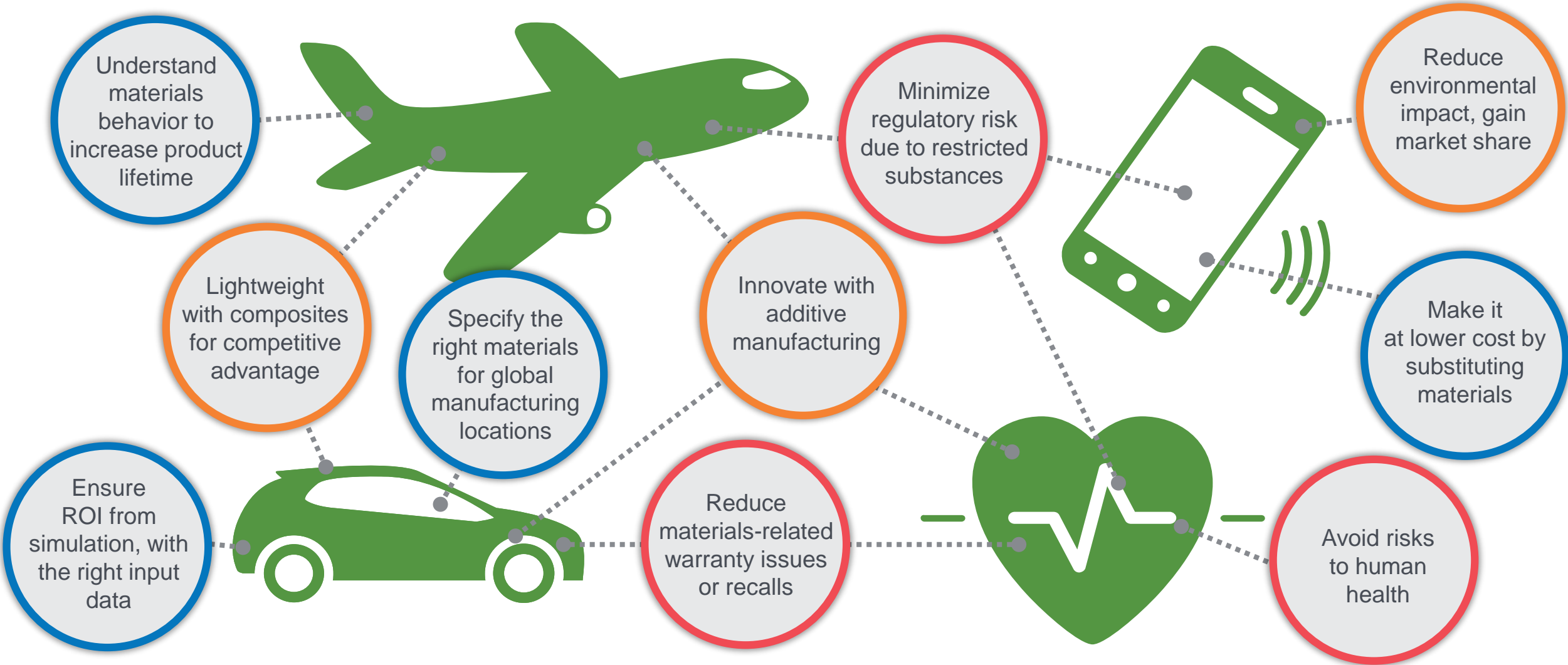
“Summing it all up, per annum, we’re looking at savings of about \$10m across three sites...”

Why materials information matters

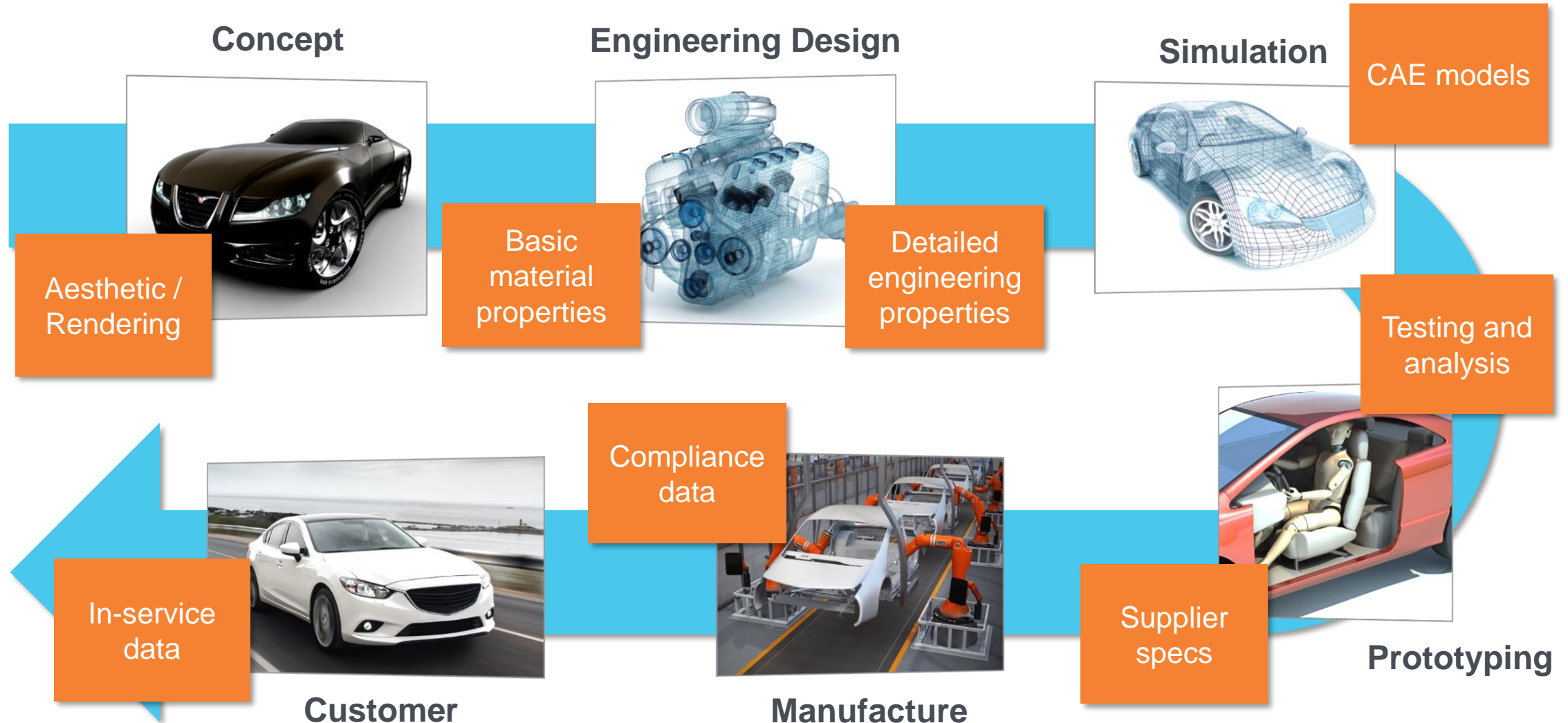
Growth

Profit

Risk

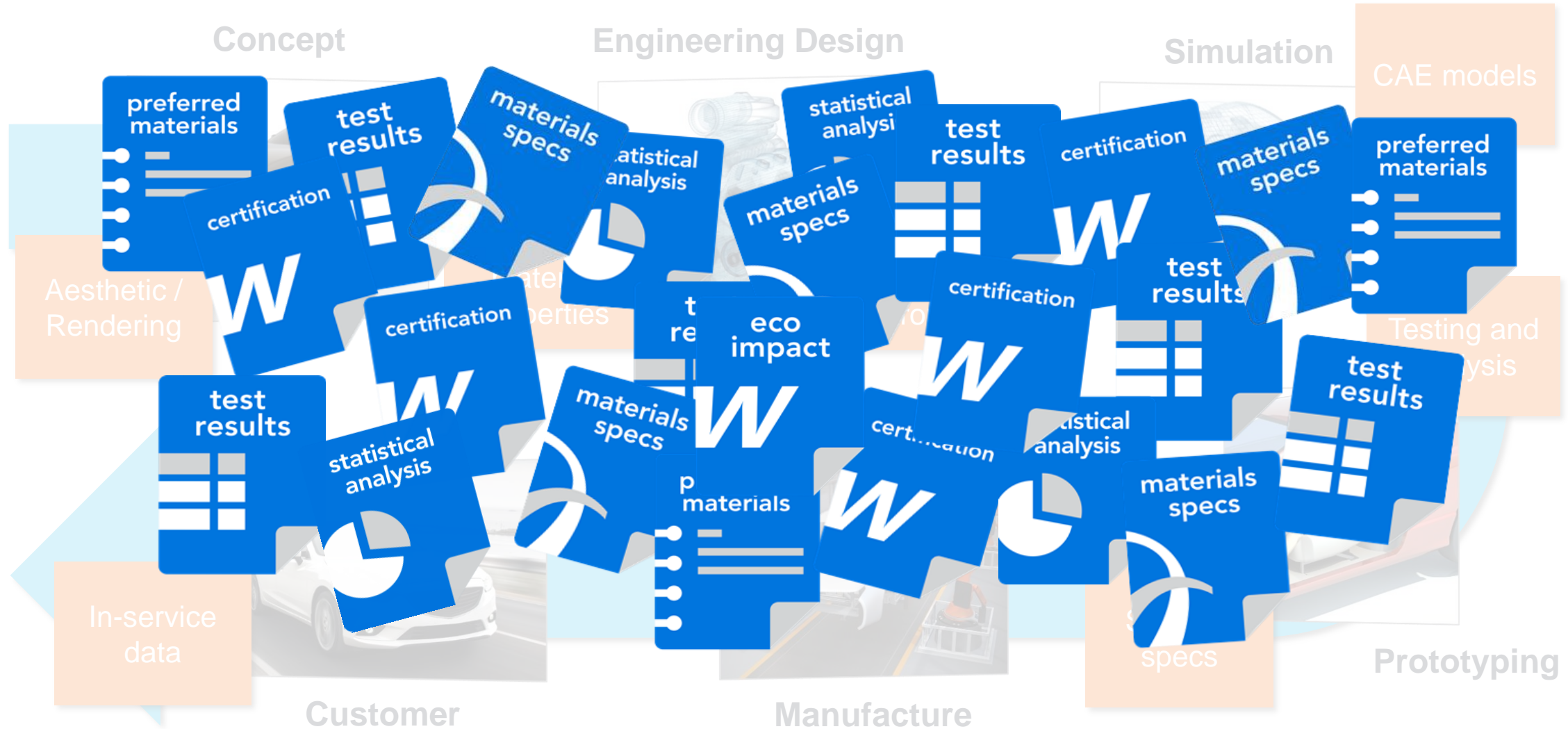


Materials information throughout product engineering



Simulation image: Shutterstock
Other images: Adobe Stock Photography

How is this valuable asset managed today?



Simulation image: Shutterstock
Other images: Adobe Stock Photography

Consequences



Weeks of wasted time

- Finding / verifying data
- Re-mapping BoMs
- Repeating tests & analysis...

Risk and error

- Inaccurate weight roll-ups
- Wrong simulation results
- Product failures...



Broken processes

- Can't check compliance
- CAD and CAE inconsistent
- Inadequate revision control...

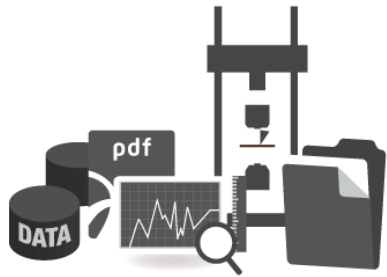


Barriers to innovation

- Complex change processes
- Experience is not shared
- Outdated materials lists...



Introducing GRANTA MI

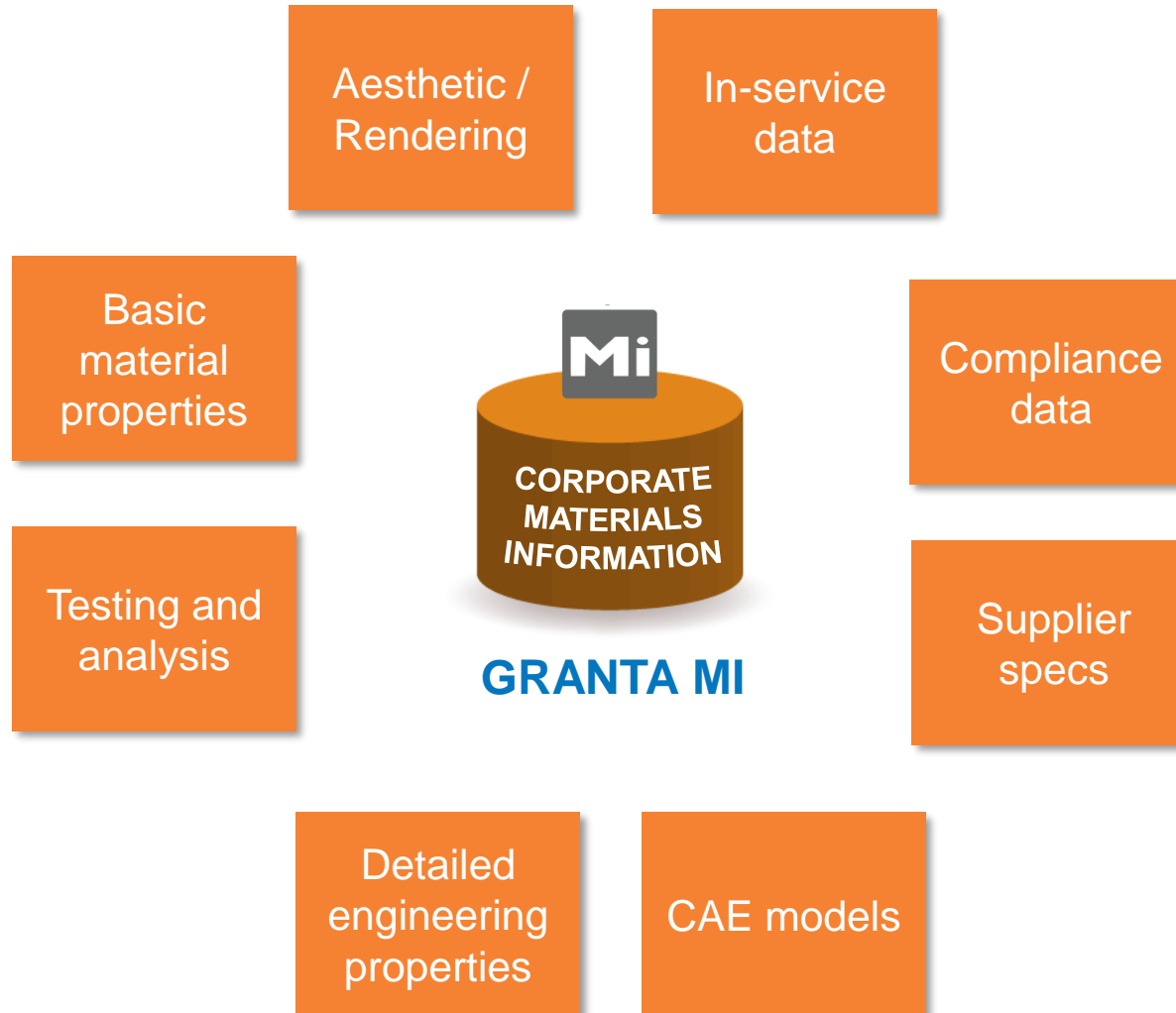


**Proprietary
materials
information**

+



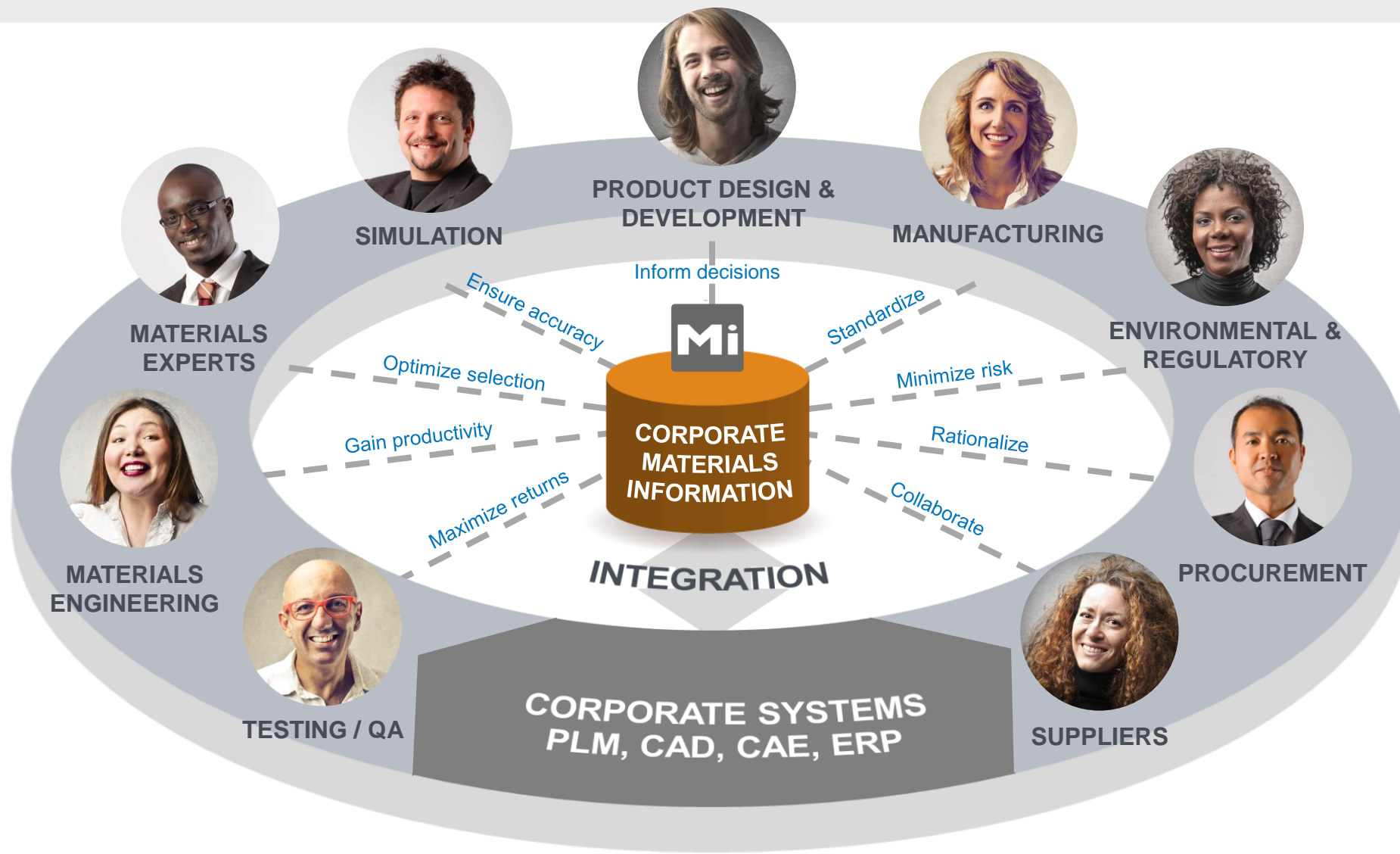
**A comprehensive library
of material reference information:
Metals, plastics, composites...**



Features include:

- Specialist materials data structures
- Tools to manage the materials data lifecycle
- Full traceability
- Access and change control, workflow

Introducing GRANTA MI





Products – CES Selector

What we hear from industry

Where can I find **reliable materials data**

Which of the **10,000s of materials** should I be considering?



MATERIALS EXPERT

I spend a lot of time **convincing stakeholders** that my recommendations are correct

How can we **reduce product delays, costs & failures**

How can I **reduce the number of design, test & prototype iterations?**



PRODUCT DESIGN & DEVELOPMENT

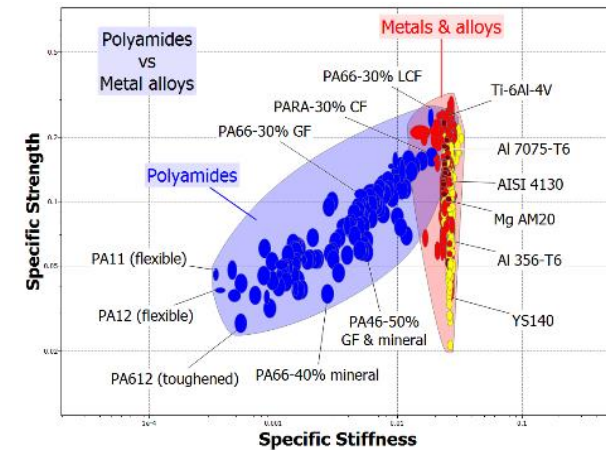
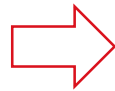


TECHNICAL DIRECTOR

CES Selector



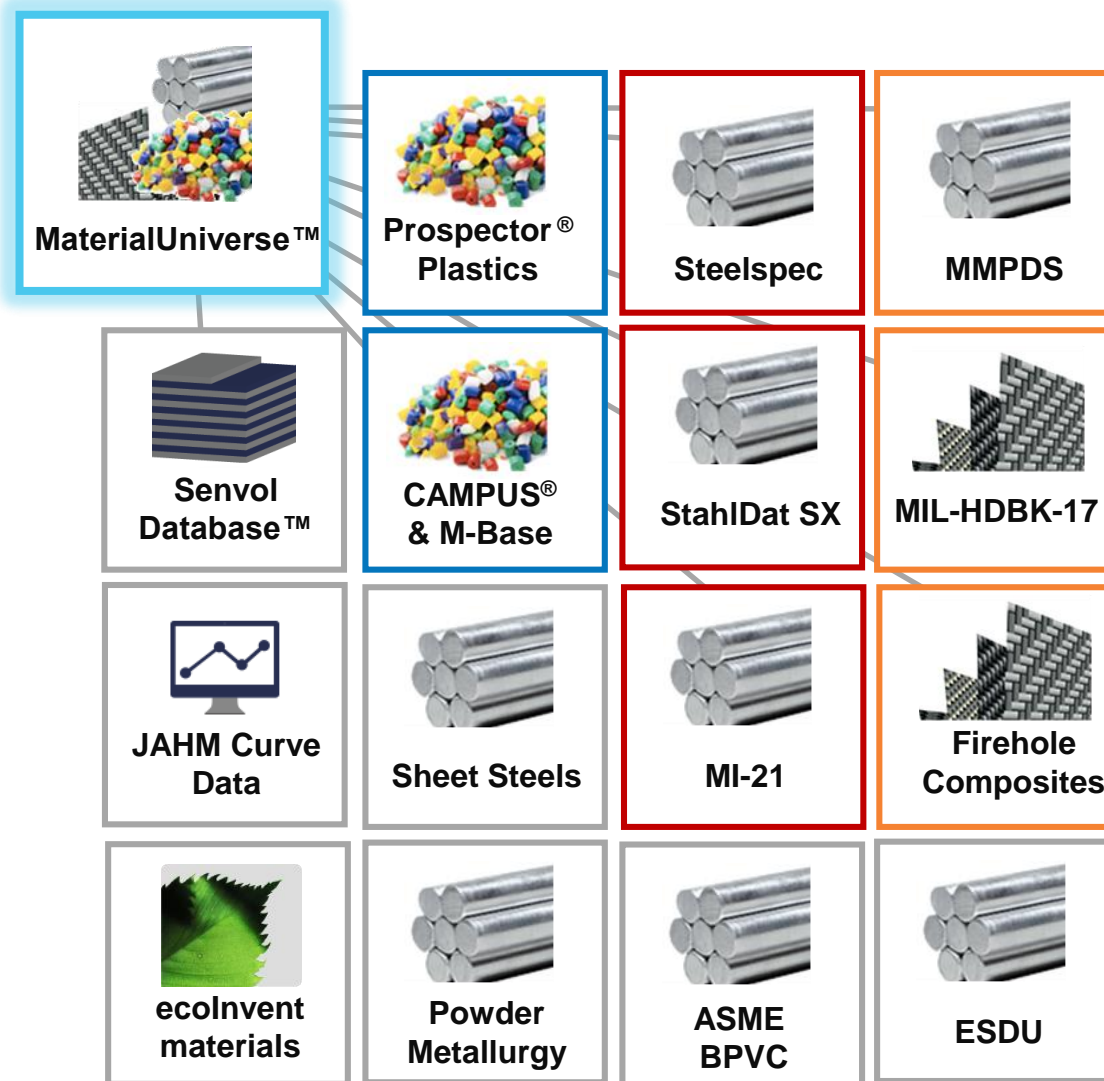
'Encyclopaedia' of materials data



Visualization, filtering & estimation tools

Enabling *smart* materials choices

Access to materials data



MaterialUniverse

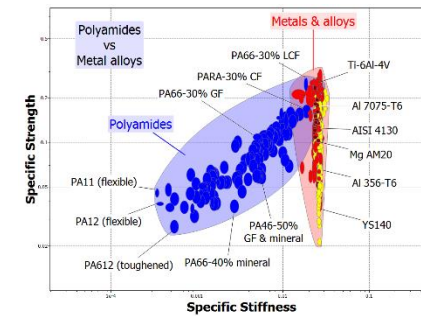
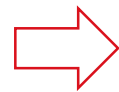
- All engineering materials
- Complete & comparable
- Price & eco data
- Compiled by materials experts
- Datasheet for generic grade
- Linked to specialist datasets

- ✓ **Unique**
- ✓ **Comprehensive**
- ✓ **Linked**

CES Selector – Enabling *Smart* Materials Choices



'Encyclopaedia' of materials data



Visualization, filtering & estimation tools