

Presentation of the European Powder Metallurgy Association

June 2017

Presented by

Dr Olivier Coube Technical Director

Overview

- What is EPMA?
- EPMA mission
- Conclusion



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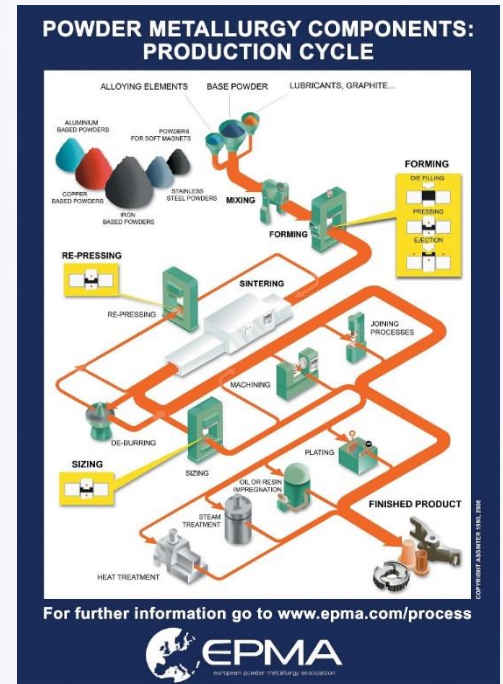
Who are the EPMA?

The European Powder Metallurgy Association (EPMA) is a non profit association formed in Brussels in 1989 with three key missions:

- Promote and Develop PM Technology in Europe
- Represent the European PM Industry within Europe and Internationally
- Develop the Future of PM

EPMA is what its members want it to be

www.epma.com/epma-objectives

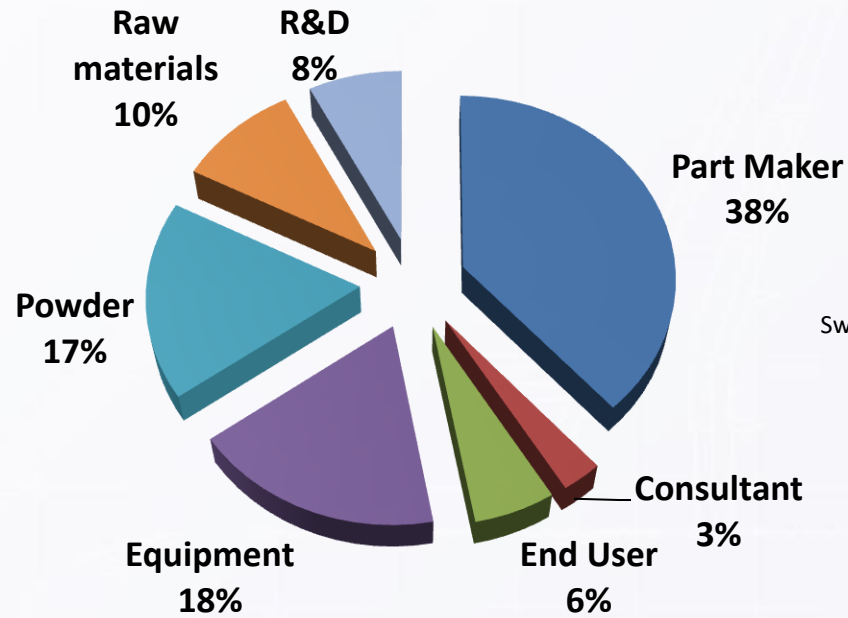


Membership

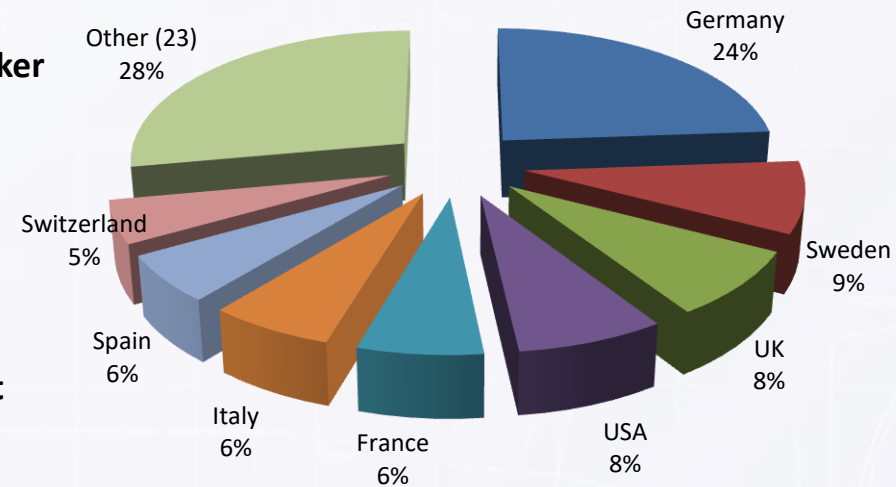


EPMA members: ca. 190 Corporate + ca. 120 Individual Members

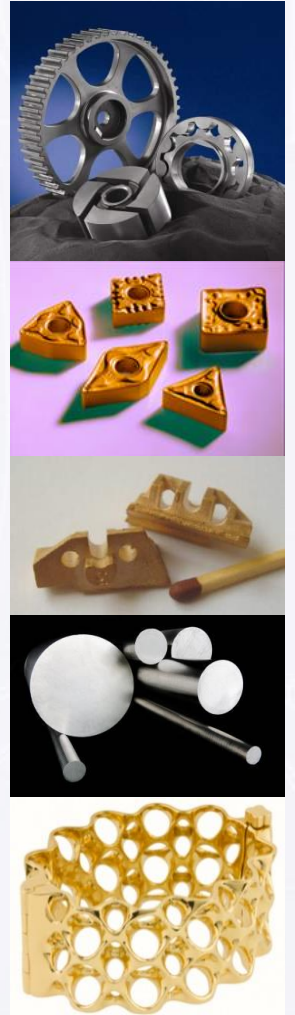
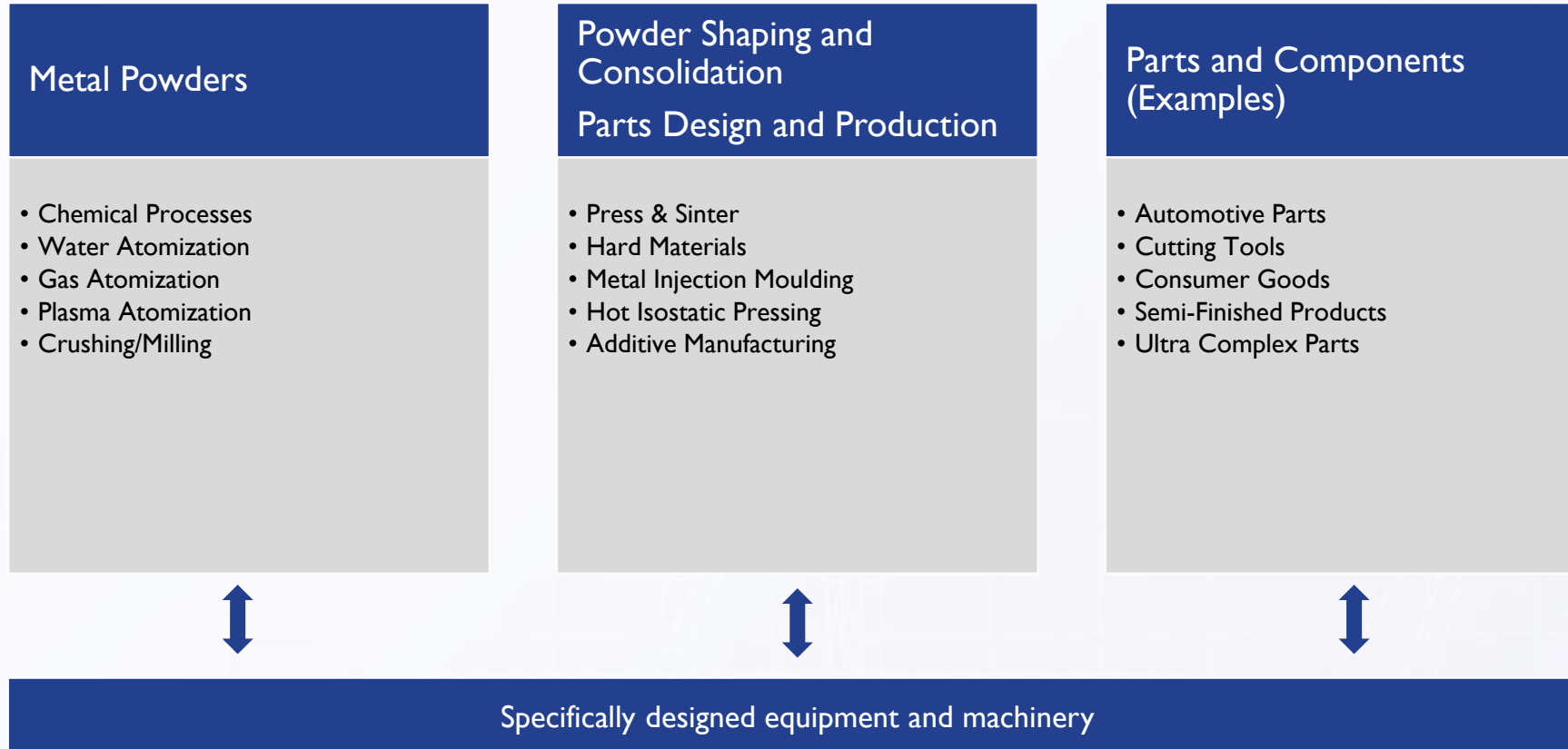
By activity



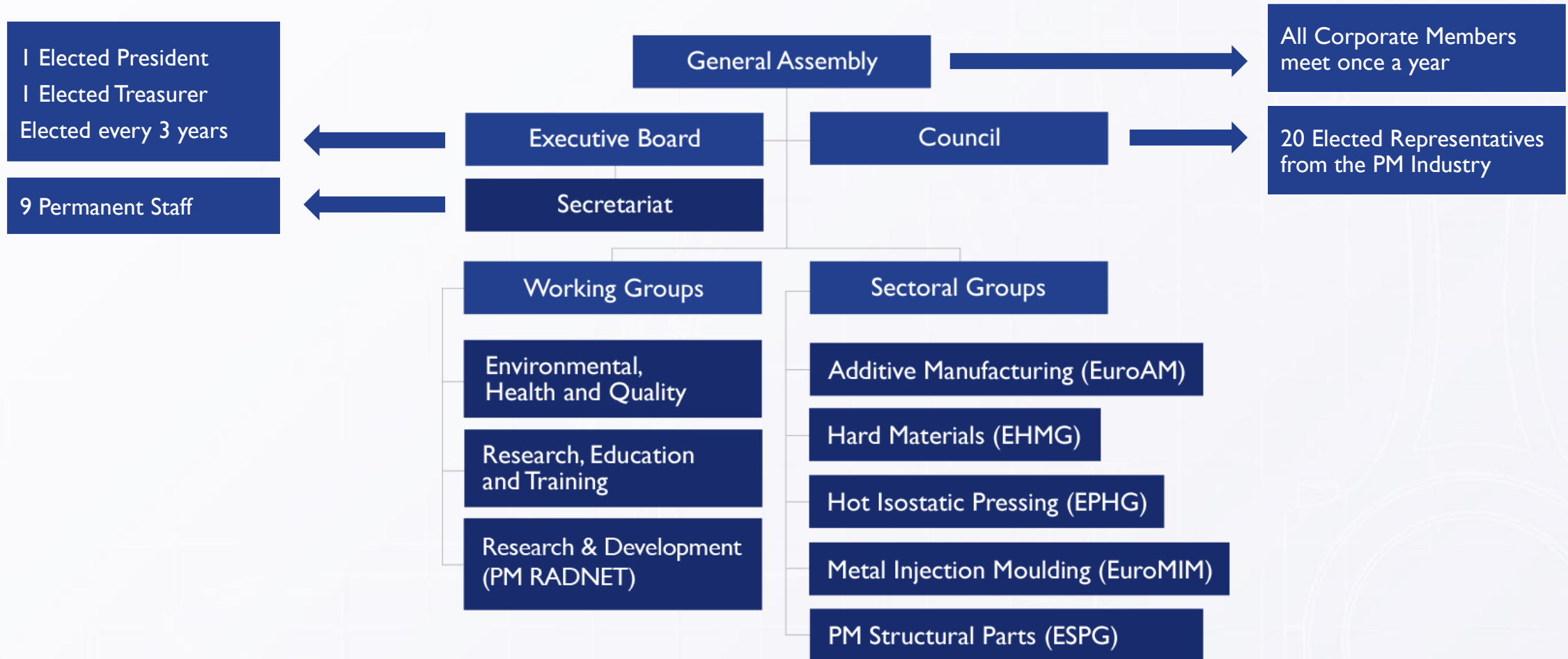
By geographical area



PM Processes and Materials covered by the EPMA



Organisation Chart of the EPMA



EPMA Secretariat



Dr Lionel Aboussouan Executive Director



Dr Olivier Coube Technical Director



Mr Andrew Almond Marketing & Exhibition Manager



Miss Kate Blackbourne Congress Manager



Mrs Jackie Peters Accounts and Membership Contact



Miss Scarlett Williams Event and Project Co-ordinator



Mrs Rhianna Jones Events and Administration Assistant









Mrs Tammy Harris Website Administrator



Mr James Batten Graphic Communications Assistant

+ Miss Alice Young Administrative Assistant

EPMA Sectoral Groups + PM R&D Network

Technology	Group name	Date of creation	No. of participants	
Press & Sinter	European Structural Parts Group EuroPRESS&SINTER	1989	130	
Hard Materials	European Hard Materials Group EuroHM	1999	32	
MIM	European Metal Injection Group European MIM Group	2001	76	
HIP	European Hot Isostatic Group EuroHIP	2009	41	
Additive Manufacturing	European Additive Manufacturing Group EuroAM	2013	60	
PM R&D	European Powder Metallurgy Institute EPMI	2005	16	

EPMA Metal Additive Manufacturing Sectoral Group



- Funded in 2013
- Coordinated by a Steering Committee
- Ca. 60 organisations members
- Focus on Metal Powder Additive Manufacturing only
- Open to Non Members for some activities (need to register)



Ralf Carlström
Höganäs
Digital Metal

Claus Aumund-Kopp
Fraunhofer IFAM

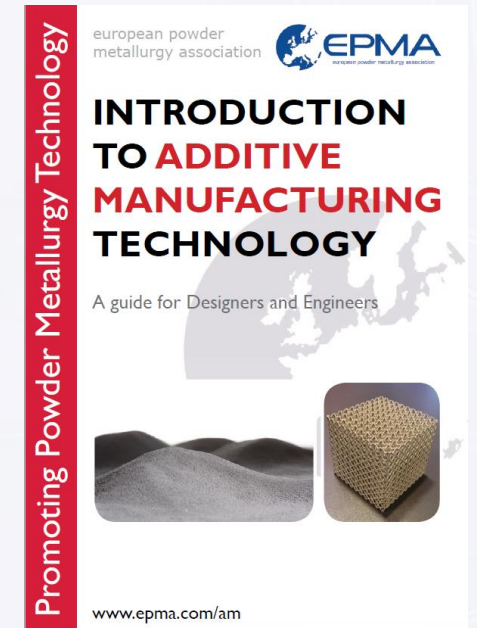
Olivier Coube
EPMA

Adeline Riou
Erasteel

Keith Murray
Sandvik Osprey

EuroAM Main Activities

- Increased Presence at the Euro PM2017
- « Club Projects » in AM like « SLM-POWD » (see www.epma.com/projects)
- Involvement in EU Projects
- Open and Special Meetings for EuroAM members
- Metal AM Seminars
- AM Trends Survey
- New Web page on PM R&D Centres
- Flyers and Brochure Introduction to Metal AM (Autumn 2017)



AM and Euro PM2017 Congress & Exhibition



Euro PM is:

- Largest PM Congress & Exhibition in Europe
- Every 6 years: Euro PM = World PM (Euro PM x2)
- Three Day Exhibition featuring over 150 Exhibitors and 200 presentations and Posters
- 800 Delegates
- End User Days and Industry Tours
- Thesis Competition 2017
- Young Engineers Workshops
- 1 AM Special Interest Seminar on “Developments in Metals AM - Materials, powder handling”
- 1 EuroAM open meeting
- 9 AM tech Sessions : 1/3 of the programme (0% in 2013, 12% in 2014, 20% in 2015)
- Euro PM2018: Ready to have a full AM Congress in //

**EURO
PM2017**
CONGRESS & EXHIBITION

1-5 Oct 2017

www.europm2017.com



Euro PM2017 Congress & Exhibition | 1

Synergies Activities: EPMA Club Projects

Industry-defined Projects open to EPMA Members and Co-ordinated by the EPMA

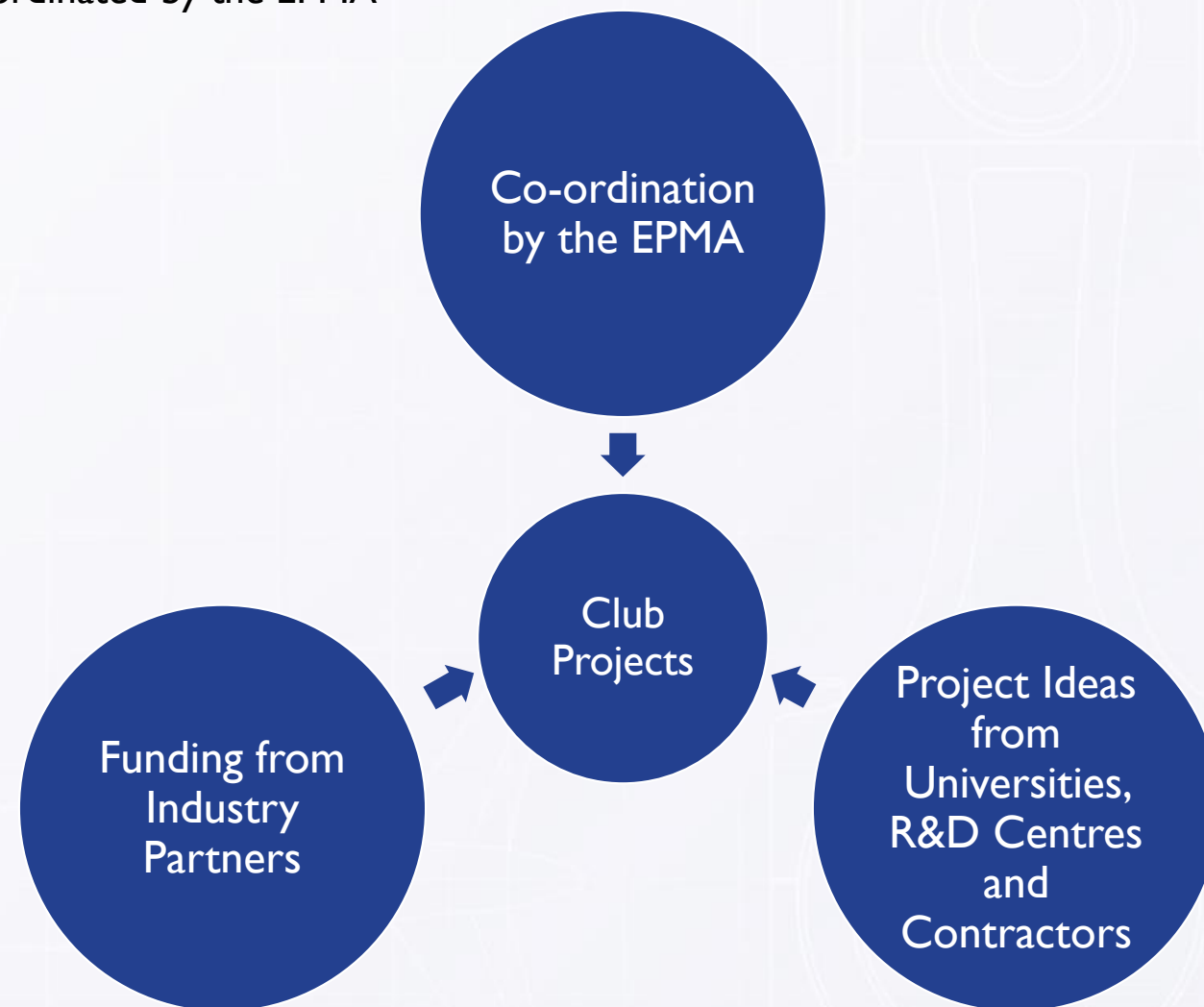
- Budget: Between €10k and €100k
- Time frame: Between 6 and 18 months
- 19 Projects so far: www.epma.com/projects
- €650k collected in total

Club Projects Webpage:
www.epma.com/projects



Club Project meeting participants

www.epma.com/projects



EuroAM Club Project: « SLM-POWD »

Quality Test for Selective Laser Melting (SLM) powder “SLM-POWD”

- 9 Partners + IFAM and EPMA: **Heraeus, SMS group, Höganäs, Linde, IMR, Sentec-BIR, Boehler, HC Starck, Granutools**
- 1 Powder
- 3 objectives:
 1. Study the applicability of a metal powder (to be defined) for the Additive Manufacturing process of Selective Laser Melting
 2. Set up a guideline on how to characterize and specify AM powder for SLM
 3. Set up a guideline on how to find the right laser parameters to process powder with SLM

(see full project proposal on www.epma.com/projects)



Participants of the Project at the Kick-off meeting

Synergies Activities: EU Funded Projects

Dissemination / Exploitation support:

- 2011: DIRA-GREEN
- 2013: EFFIPRO
- 2016: AM-Motion: A strategic approach to increasing Europe's value proposition for Additive Manufacturing technologies and capabilities



Dira-Green Prototype

Support/Participation to/in Member's Proposals:

- Horizon 2020
- Marie Curie Initial Training Network
- EURAMET
- Knowledge Innovation Community (KIC)
- Etc..



EFFIPRO Consortium

Dissemination / Exploitation support to the Project's Proposal (Impact criterion) through our dissemination events (c€800k).

Open and Special Meetings for EuroAM members

- One open Meeting per year during the Euro PM Congress: Dissemination and Promotion of EuroAM
- 1 or 2 Special Discussion Meetings per year for EuroAM members: Brainstorming on EuroAM Strategies



Organisation of Metal AM Seminars

- First one in 2016 at Fraunhofer IFAM, Bremen: 60 participants
- 2nd one in 2017 at MTC, Coventry: 70 participants



Fraunhofer IFAM

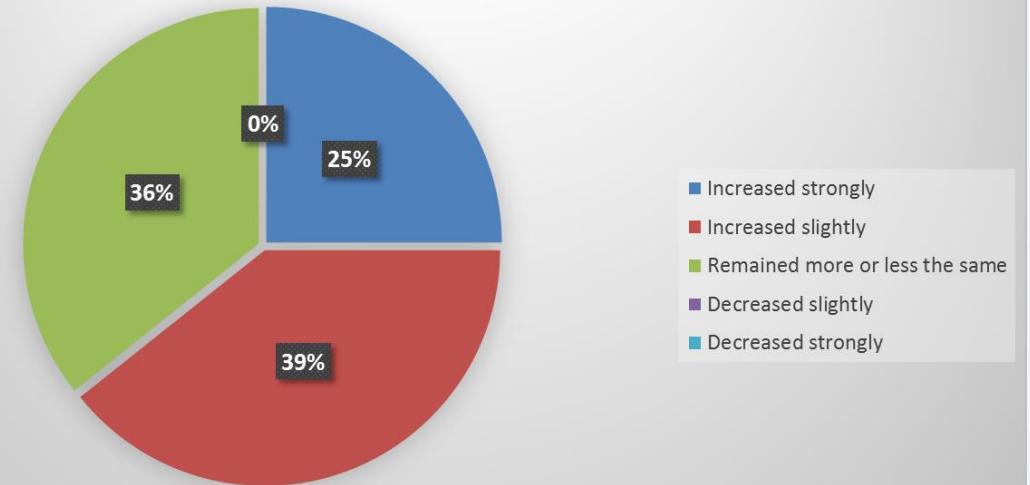
MTC

EuroAM Trends Survey

- First one in 2016. Launched every year around July. Results discussed at Euro PM
- Open to all AM Stakeholder
- 53 participants last year



In the first six months of 2016, how did your **AM** income perform?



New: PM R&D Centre Webpage

www.epma.com/projects/r-d-centres-mapping

PM Manufacturing Category

- ☐ Ferrous Structural Parts (Press & Sinter)
- ☐ Hard Materials
- ☐ Hot Isostatic Pressing (HIP)
- ☒ Metal Additive Manufacturing (AM)
- ☐ Metal Injection Moulding (MIM)
- ☐ New Materials and Applications

Showing 14 locations.

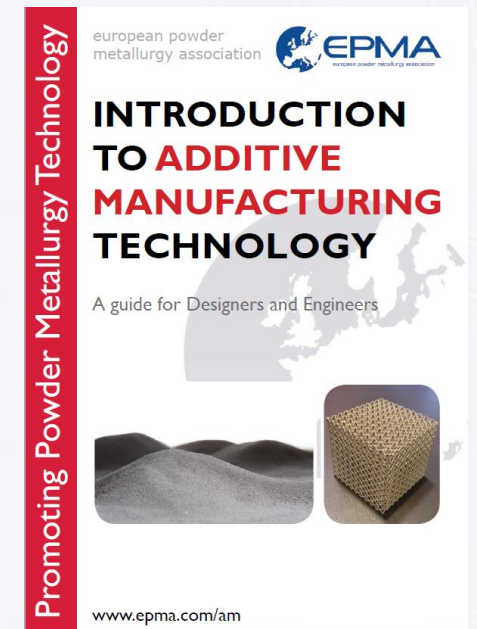
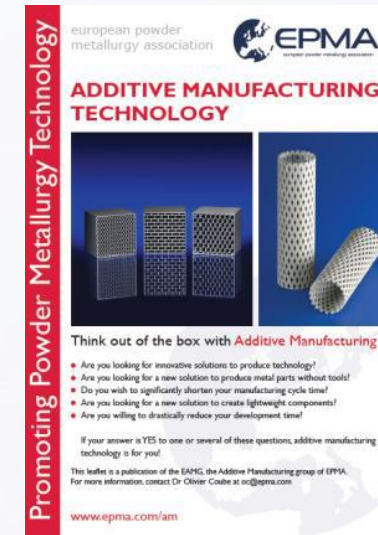
Reset Map

Hide all



EuroAM Flyers and Brochures

- Free of charge available in Hardcopy and PDF
- First 4 page Flyer in 2014
- First Brochure Introduction to Additive Manufacturing in 2015
- Second version planned for Autumn 2017



How to follow EuroAM activities



The screenshot shows the EPMA website with the following elements:

- EPMA Logo:** European powder metallurgy association
- Navigation Bar:** Home, About Us, Membership, Powder Metallurgy, Publications, News, Events, Activities, Projects, Sectoral & Working Groups
- Search Bar:** Enter search term... with a magnifying glass icon.
- Subscribe Button:** A blue button with a white envelope icon, circled in red.
- EuroAM Section:**
 - EuroAM Logo:** AN EPMA SECTORAL GROUP
 - Keep up to date with EuroAM:** A blue button with white text, circled in red.
 - Sectoral & Working Groups:**
 - European Additive Manufacturing Group (EuroAM)
 - EuroAM Events
 - European Hard Materials Group (EuroHM)
 - European PM Hot Isostatic Pressing Group (EuroHIP)
 - European Structural Parts Group (EuroPress&Sinter)
 - European Metal Injection Moulding Group (EuroMIM)
 - Environmental Health & Quality Group (EHQ)
 - Research Education and Training Group (RET)
 - European Powder Metallurgy Institute (EPMI)
 - European Communications Working Group (ECOM)
 - Related Publications:**
 - EPMA Additive Manufacturing Technology (Leaflet)
 - Download button



- www.epma.com

or

- www.epma.com/european-additive-manufacturing-group

And LinkedIn, Tweeter, Facebook, Youtube

Thank you for your attention

June 2017

Presented by

Dr Olivier Coube Technical Director