

Additive Manufacturing/3D Printing Platform

Dr Robert Scudamore

Additive Manufacturing Sub-Platform Committee

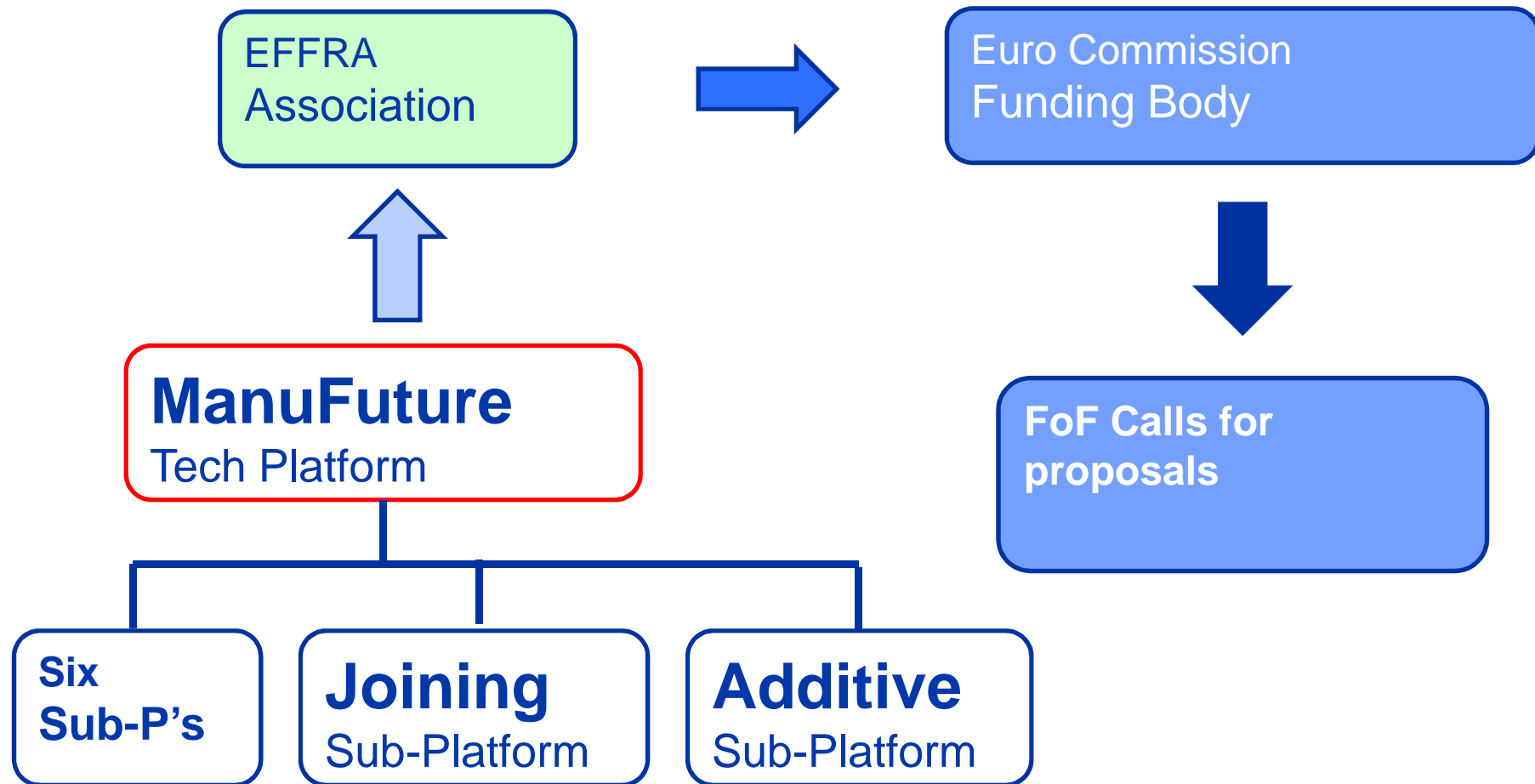
Joining Sub-Platform Chair

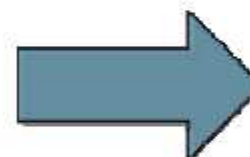
ManuFuture ISG, HLG and UK Member

EFFRA IRAG and Partnership Board Member

Materials Joining and Engineering Technologies

Growth through Manufacturing





Over € 1 Billion total project budget

151 Projects launched

Over 1,000
organisations

50% industry
participation

SME participation

Demonstration

Dissemination

Committed industry &
strong research network

Over € 2 Billion
total project budget


EFFRA Innovation Portal

The screenshot shows the EFFRA Innovation Portal in a Windows Internet Explorer browser window. The address bar displays the URL <http://www.effra.eu/fluxBB/index.php>. The browser's menu bar includes File, Edit, View, Favorites, Tools, and Help. The page header features the EFFRA logo, which consists of a stylized 'E' made of three colored triangles (green, blue, and orange) followed by the text 'EFFRA' in large blue letters and 'a MANUFUTURE initiative' in smaller grey letters below it. The text 'EUROPEAN FACTORIES OF THE FUTURE RESEARCH ASSOCIATION' is also present. Below the header, the title 'EFFRA Innovation Portal' is displayed. A navigation bar contains links: Forum home, Projects and project ideas, Profile, and Logout. Below this, a status bar indicates the user is logged in as 'robert.scudamore' with a last visit of '2013-12-17 10:23:36'. To the right of this bar are links for Topics: Posted, New, Active, and Unanswered. The main content area is a table with four columns: General, Topics, Posts, and Last post. It lists four topics: 'Welcome', 'Consultation Work Programme 2016-2017', 'Map your projects, results and demonstrators in the Innovation Portal [New posts]', and 'Express your interest in participating in the FoF PPP!'. The bottom of the browser window shows the Windows taskbar with the Start button and several application icons. The system tray on the right shows the time as 06:53 and the date as 03/06/2014.

EFFRA Innovation Portal - Windows Internet Explorer

<http://www.effra.eu/fluxBB/index.php>

File Edit View Favorites Tools Help





 **EFFRA** *a MANUFUTURE initiative*
EUROPEAN FACTORIES OF THE FUTURE
RESEARCH ASSOCIATION





EFFRA Innovation Portal

Forum home Projects and project ideas Profile Logout

Logged in as **robert.scudamore** :: Last visit: 2013-12-17 10:23:36

Topics: [Posted](#) | [New](#) | [Active](#) | [Unanswered](#)

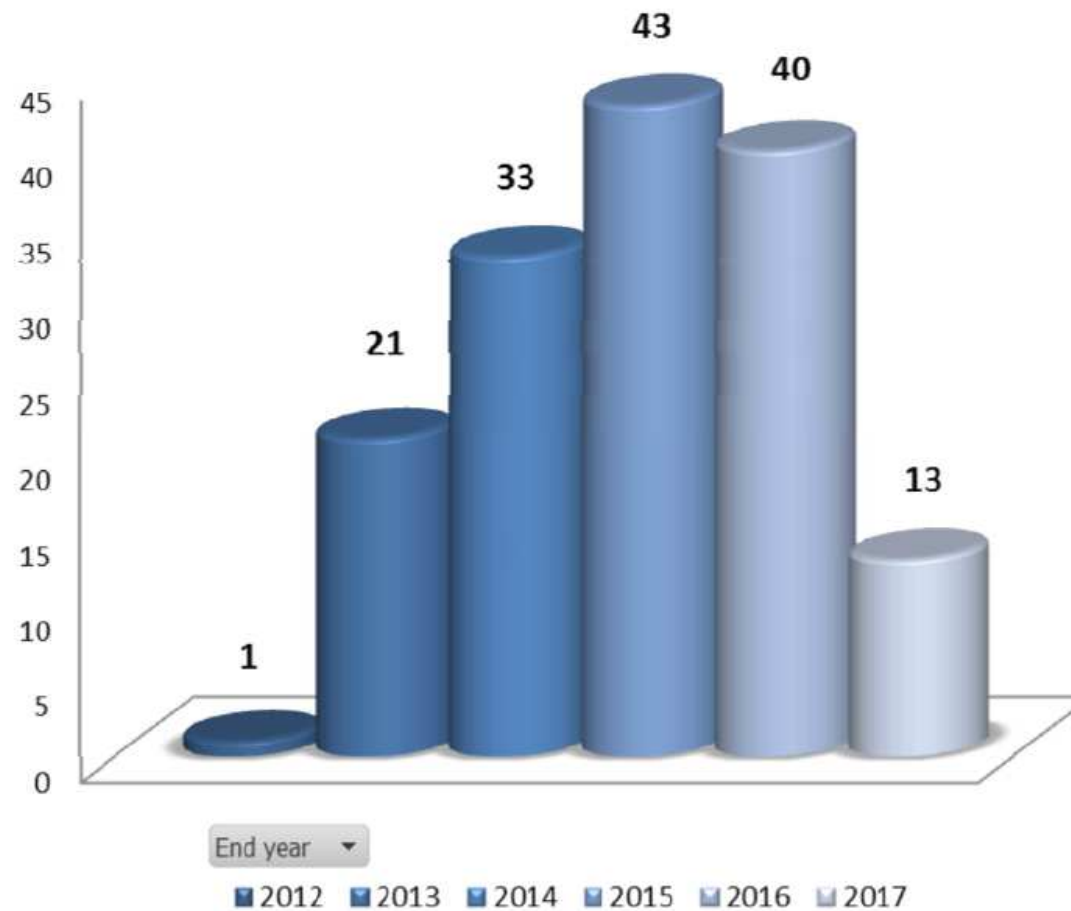
General	Topics	Posts	Last post
 Welcome Welcome and introduction	1	1	2013-10-16 14:01:49 by Decubber
 Consultation Work Programme 2016-2017	1	1	2014-05-12 22:09:11 by Decubber
 Map your projects, results and demonstrators in the Innovation Portal [New posts]	1	1	2014-04-11 11:02:33 by Decubber
 Express your interest in participating in the FoF PPP! View here the available project ideas and expressions of interest and learn what you should do to post your expression of interest in the innovation portal	1	1	2013-10-22 09:34:05 by Decubber

Start    

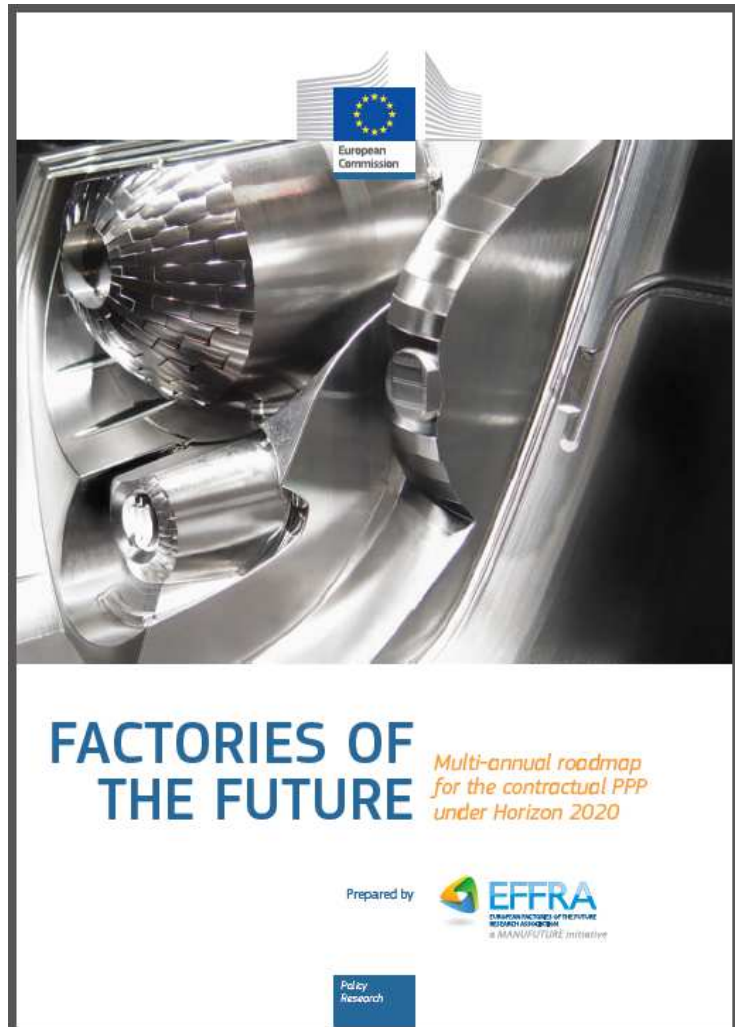
06:53
03/06/2014

FoF projects concluding

Concluding FoF projects (according to current project portfolio)



Roadmaps/SRA's



Up structure



AM SRA - Timeline

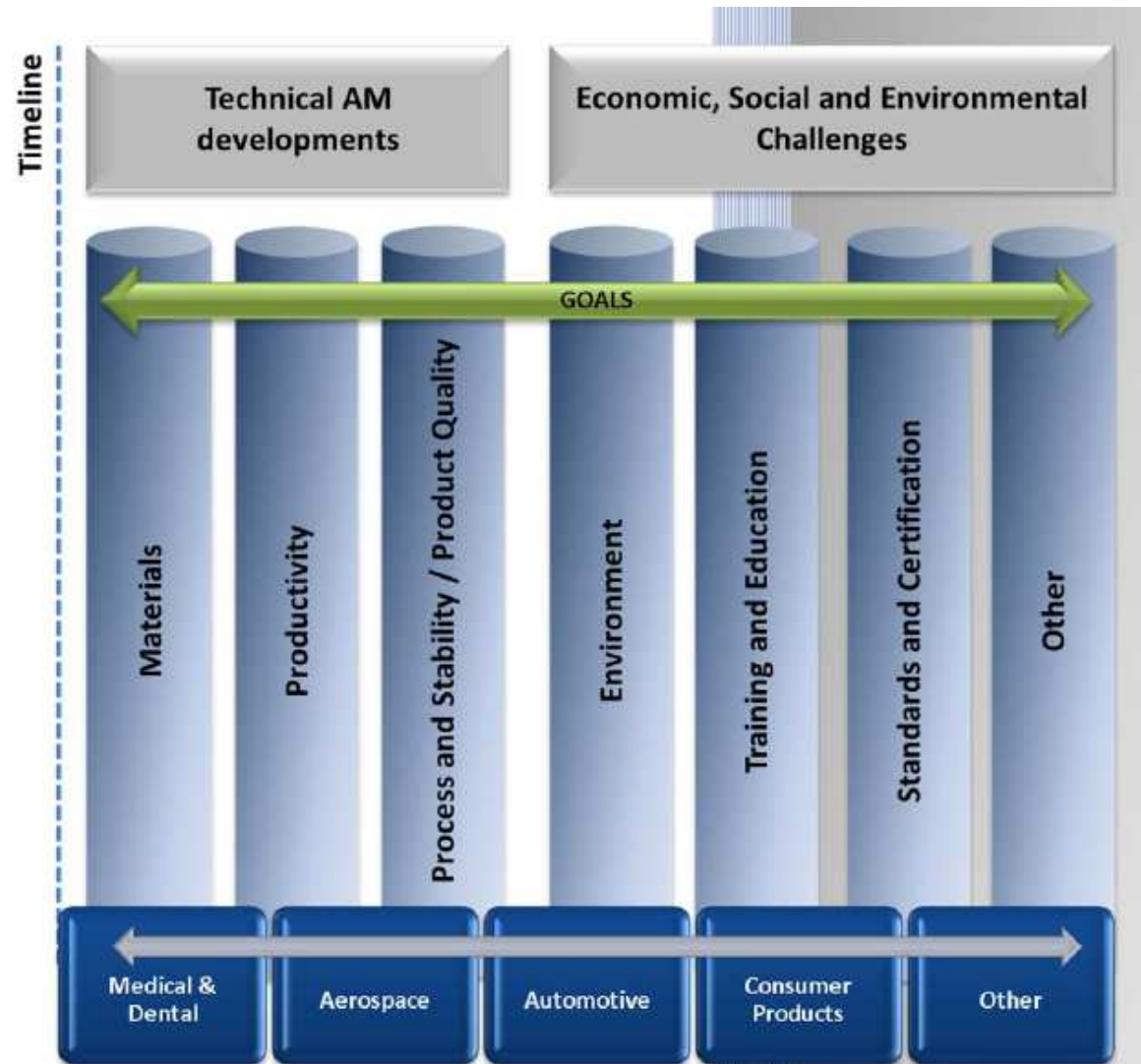


Figure 19: Common themes within and across the main topics of the recommendations.

Roadmap for Technical AM Development

Additive Manufacturing SRA 2013

LOW RISK MED RISK HIGH RISK

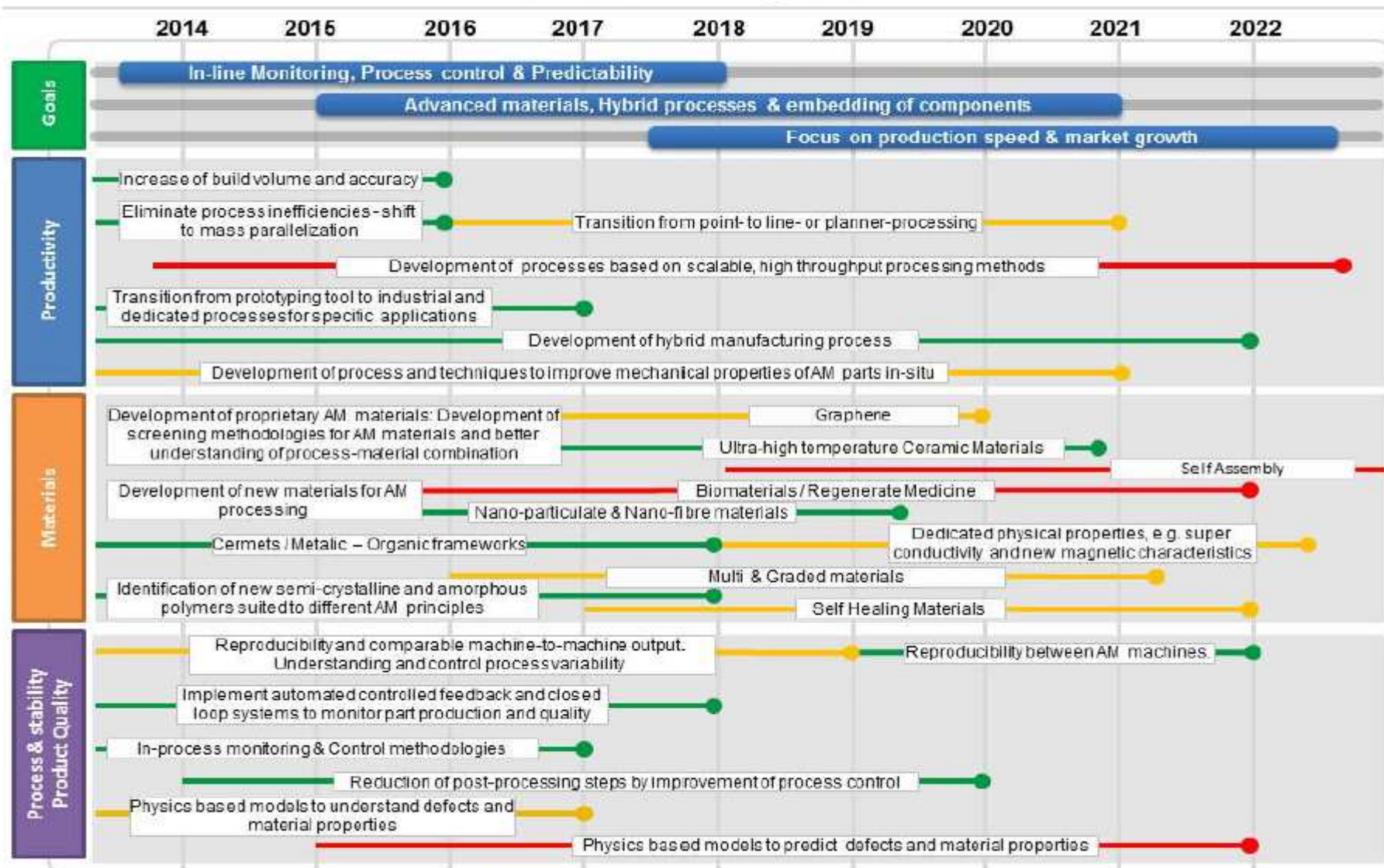


Figure 20: Timeline roadmap for Technical AM development.

Roadmap EU Grand challenges served by AM: Economical, Social & Environmental

LOW RISK MED RISK HIGH RISK

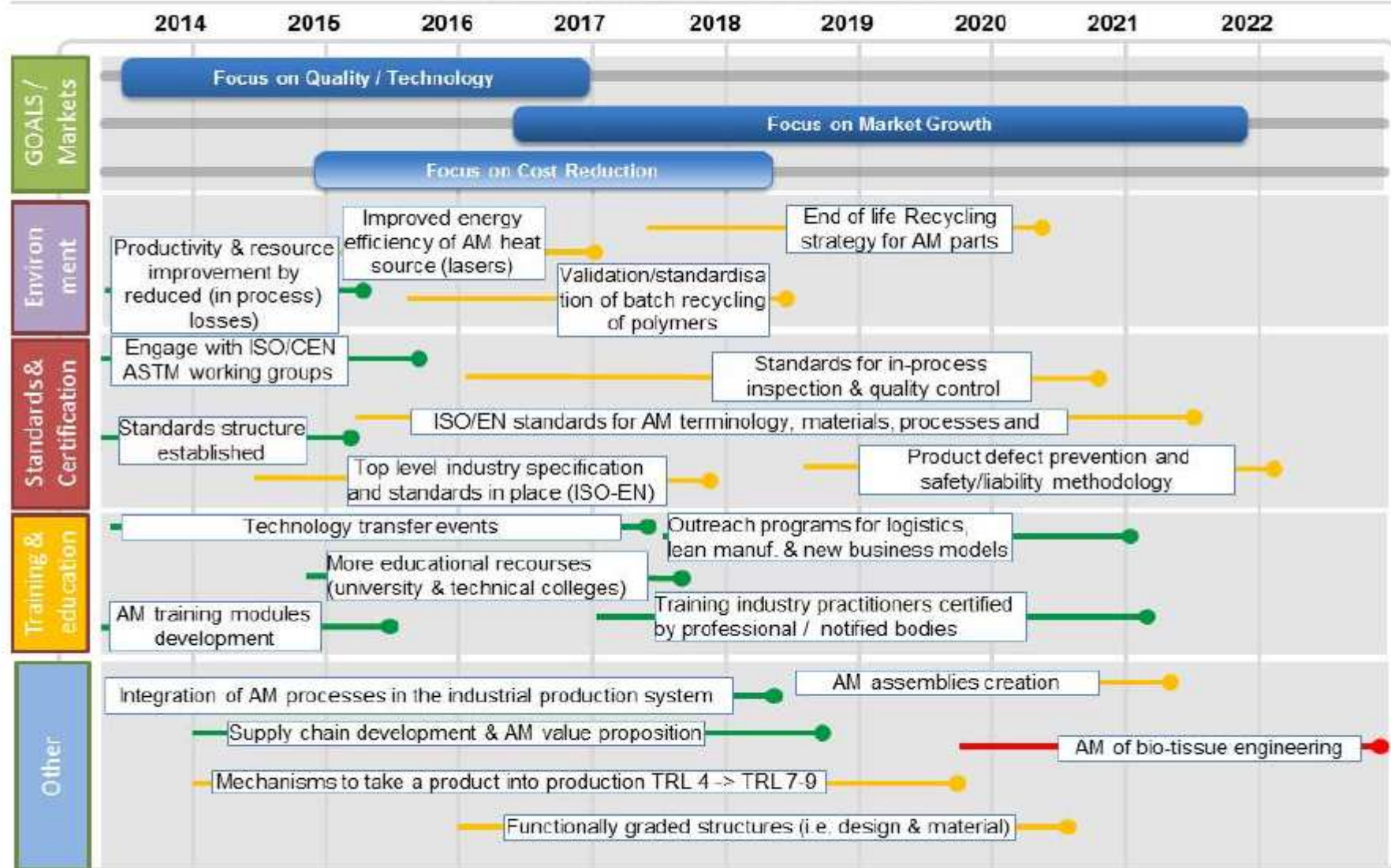
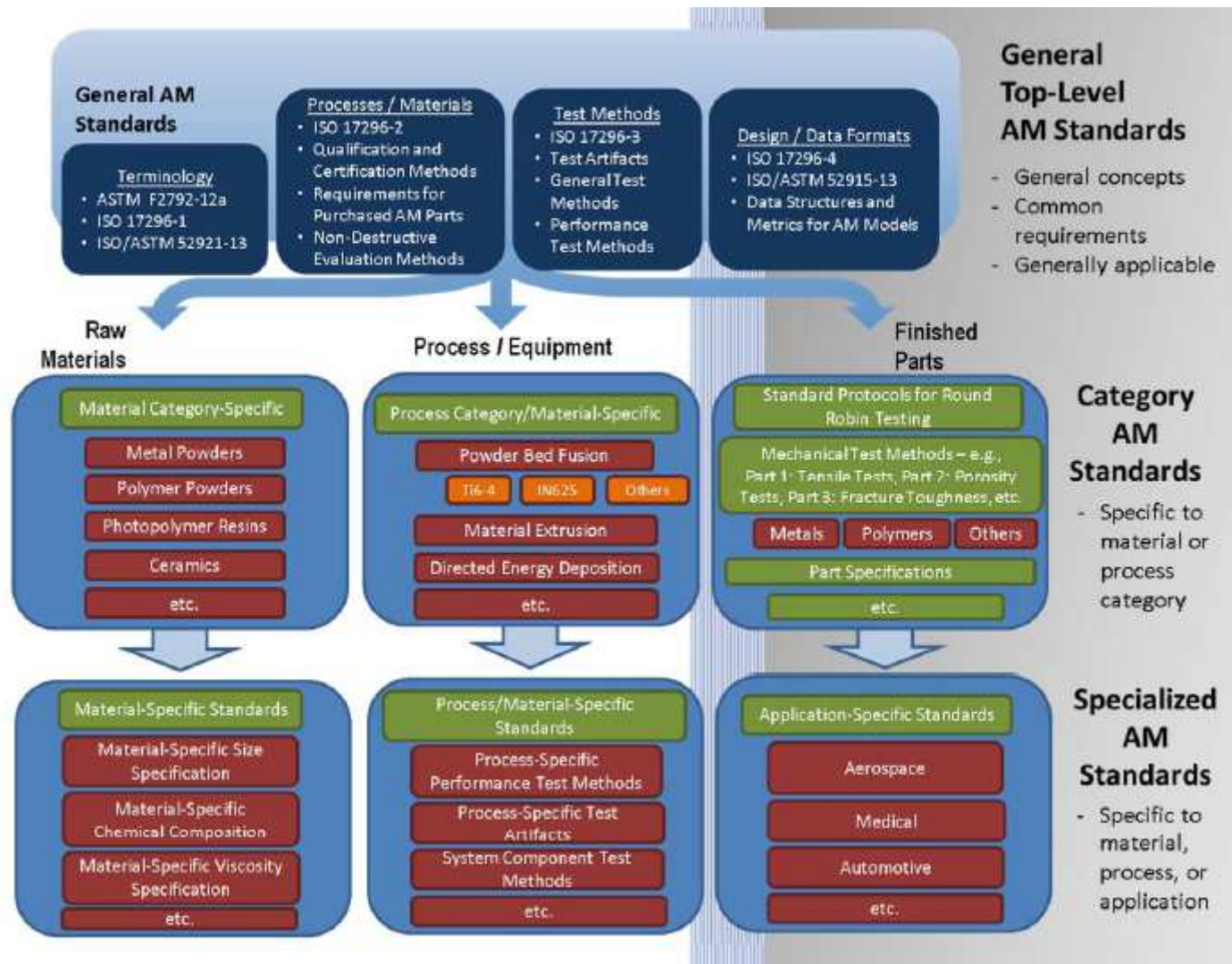


Figure 21: Timeline roadmap for EU grand challenges.

AM SRA - Standards



2014/2015 Calls

Factories of the Future

FoF 1 – 2014: Process optimisation of manufacturing assets

FoF 2 – 2014: Manufacturing processes for complex structures and geometries with efficient use of material

FoF 3 – 2014: Global energy and other resources efficiency in manufacturing enterprises

FoF 8 – 2015: ICT-enabled modelling, simulation, analytics and forecasting technologies

FoF 9 – 2015: ICT Innovation for Manufacturing SMEs (I4MS)

FoF 10 – 2015: Manufacturing of custom made parts for personalised products

FoF 11 – 2015: Flexible production systems based on integrated tools for rapid reconfiguration of machinery and robots

FoF 12 – 2015: Industrial technologies for advanced joining and assembly processes of multi-materials

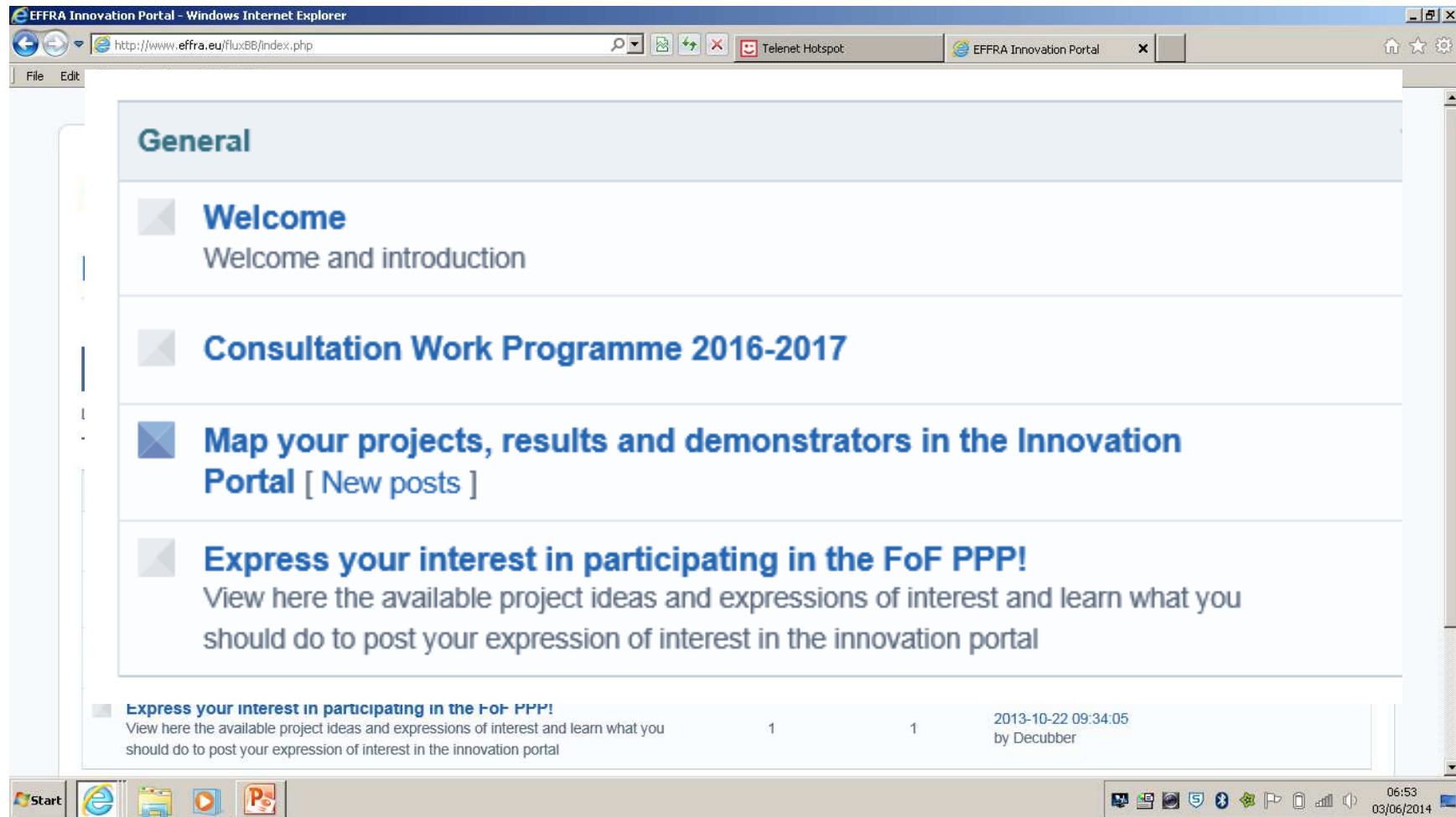
FoF 13 – 2015: Re-use and re-manufacturing technologies and equipment for sustainable product life cycle management

FoF 14 – 2015: Integrated design and management of production machinery and processes

FoF 13 – 2015: Re-use and re-manufacturing technologies and equipment for sustainable product life cycle management

FoF 14 – 2015: Integrated design and management of production machinery and processes

EFFRA Portal – 2016/17 Consultation



Thank you
robert.scudamore@twi.co.uk

Materials Joining and Engineering Technologies

FoF 2015 Calls

- FoF-08-2015: ICT-enabled modelling, simulation, analytics and forecasting technologies
- FoF-09-2015: ICT Innovation for Manufacturing SMEs (I4MS)
- FoF-10-2015: Manufacturing of custom made parts for personalised products
- FoF-11-2015: Flexible production systems based on integrated tools for rapid reconfiguration of machinery and robots
- FoF-12-2015: Industrial technologies for advanced joining and assembly processes for multi-materials
- FoF-13-2015: Re-use and remanufacturing technologies and equipment for sustainable product lifecycle management
- FoF-14-2015: Integrated design and management of production machinery and processes

2015 Call Links

8. <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2187-fof-08-2015.html>
9. <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2188-fof-09-2015.html>
10. <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2189-fof-10-2015.html>
11. <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2190-fof-11-2015.html>
12. <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2191-fof-12-2015.html>
13. <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2192-fof-13-2015.html>
14. <http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/2193-fof-14-2015.html>