

As Italian and Spanish National Networks of Industrial Mathematics, we are really enthusiastic for having been involved in starting this new EU-MATHS-IN adventure: an enthusiasm that comes from the belief that such an initiative could really lead to a wide diffusion of industrial mathematics within the corporate culture all over the Europe.

Among the results we plan to achieve through our participation in the EU-MATHS-IN project, there is the empowerment and consolidation, even in time, of the already active National Networks of industrial mathematics in Europe.

In order to enrich the discussion during the kick-off meeting of EU-MATHS-IN to be held in Amsterdam on November 27th, we propose to consider the following contents and proposals.

GENERAL CONSIDERATIONS

It should be better clarified the role that the European network EU-MATHS-IN would assume as a ONE-STOP-SHOP for European companies, with respect to the existence of the National Networks, in order to avoid overlappings among the interests of the National Networks that are members of the European Network, and between the European Network and the National Networks.

It should be therefore clarified the mechanisms or protocol by which companies can refer to the European Network and then be directed to specific research centers, whether through a passage through the National Networks or in a direct way, and if so, by what criterion.

We also propose some specific integration concerning the strategy document of EU-MATHS-IN:

STRATEGIC LONG TERM GOALS:

Our proposal is to **mention explicitly**, among the strategic long term goals of EU-MATHS-IN, **the role of the National Networks that are members of it**. This could be done by adding a specific point in the list, such as:

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- a1) Consolidate the role of the National Networks of industrial mathematics already active in Europe as members/nodes of EU-MATHS-IN and promote the foundation of new National Networks to empower the European cooperation in this field.
 - a2) Establish strategic connections among the active National Networks in Industrial Mathematics and between them and the European Companies

[...]

- h) Establish new fruitful relationships with international networks (US, Canada, Latino America, ...) to promote the role and empower the impact of the European EU-MATHS-IN network at an international level.

Concerning SERVICE PORTFOLIO AND SHORT-TERM GOALS

We propose to include the following three points in the Service Portfolio list:

- **monitor funding opportunities** available at European level for the EU-MATHS-IN initiatives and for the National Networks;
- **encourage the application of the National Networks** for European tenders, also in partnership with European enterprises;
- **apply also directly as EU-MATHS-IN** for European tenders, studying how to share and distribute the incomes and the efforts between the National Networks;

Concerning the last item of *point a (software repository)*: it should be analyzed if the point concerning virtual repository of software is strictly needed at this stage as it is expressed in the document. Currently there are already good software repositories not only containing mathematical algorithms but also with more general scientific software, that can be more attractive for the companies. Moreover, building a new one could lead to spend a lot of efforts in time and costs. Finally, the repository would be mainly useful for the research groups (and then it's a proper activity for the mathematical societies) and not for promoting the transfer to industry. Hence we think it would be better to limit this activity to link together those existing good software repositories, instead of building a new one from scratch, and this could be specified in the strategy document.

Point b of the Service portfolio and point 5 of short term goals:

A DEPOSITORY OF SUCCESS CASES

We fully agree on the fundamental importance of the continuation of the “Success Stories in Industrial Math”.

We propose an additional point in the service portfolio and in the short term goals, that is, the creation of an **industry-driven online depository** containing short cases/stories of industrial successes of the european industrial mathematics presented as synthetic slides/brochures and starting from the real benefits achieved by enterprises and expressed as much as possible in terms of quantity, therefore measurable and comparable, trying to comply as much as possible with the specific needs for an effective communication towards companies. In particular, such a success cases depository would be built by gathering the consent to the dissemination of the information associated with them, and this would make easier the work of the National Networks in promoting a cultural change among the european companies, and therefore for "non-experts" in mathematics, to finally see recognized the usefulness of the tangible products of the research in the field of mathematics.

In addition, an increased quantification of the benefits for the involved firms could be very useful when applying for European tenders.

Add a new point (o1):

Cooperation and support of education and training activities of the research groups members of the National Networks, such as Master Degree and Phd programs focused on Industrial Mathematics.

Best Regards,

MATHEMATICAL DESK FOR ITALIAN INDUSTRY - Italy

MATH-IN – Spain