



**NANO2ALL**

SOCIETAL ENGAGEMENT ON RESPONSIBLE NANOTECHNOLOGY

# RRI in EU-Brazil cooperation

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**INCOBRA info session RRI**

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## 01

### Introduction

- International cooperation is a cornerstone of EU research and innovation policy
- This has fostered many projects including Brazilian and European partners
- Several projects target Responsible Research and Innovation

## 02

### RRI in EU-Brazil cooperation

#### Examples of past projects (FP7):

- NMP-DeLA: Nano, Materials and Production Technologies Deployment in Latin America (2013-2015): developed roadmaps for health, water and sustainable energy applications. Brazilian partner: Prof. Dr. Noela Invernizzi, Univ. Fed. Parana. [http://cordis.europa.eu/project/rcn/108951\\_en.html](http://cordis.europa.eu/project/rcn/108951_en.html)
- NMP-DeLA Results are highlighted here: <http://www.ethicschool.nl/content/2015/09/Roadmaps-and-recommendations-on-Euro-Latin-American-nanotechnology-cooperation>
- SYNENERGENE: fostered dialogue on RRI in synthetic biology. Some events were organised in Brazil. [www.synenergene.eu](http://www.synenergene.eu) UFMG's iGEM team engaged with public in SYNENERGENE: [http://2015.igem.org/Team:UFMG\\_Brazil/Public\\_Engagement](http://2015.igem.org/Team:UFMG_Brazil/Public_Engagement)

## Ongoing H2020 projects:

### 02. RRI in EU-Brazil cooperation

- RRI-Practice (2016-19): compares RRI practices in research funding bodies from 12 countries including Brazil (UniCAMP): <https://www.rri-practice.eu/> On 23 February 2017, they organised a workshop on RRI in Brazil. Contact persons are Marko Monteiro and Luis Reyes. More information on RRI at UNICAMP is available here: <https://luisreyes92.wixsite.com/unicampri>
- SIENNA (2017-21): investigates technology, ethics and human rights. Develops research ethics protocols and professional ethics codes for human genomics, human enhancement and human-machine interactions. They intend to interview 1000 Brazilian citizens by phone, and to study the legal framework and public discourse concerning all three issues. This builds upon a CEN Workshop Agreement on ethics committees developed in the SATORI-project ([http://satoriproject.eu/publication\\_type/standards/](http://satoriproject.eu/publication_type/standards/)). Brazilian partner is UFRJ (<http://www.sienna-project.eu/>)
- STARBIOS2 (2016-20): Enhancing responsible Biosciences. Brazilian partner is Fiocruz (Luis Carlos Jr Alcantara) <https://starbios2.eu/>

## 03

### Discussion

#### Statements for discussion:

- International dialogue on different interpretations of RRI is ongoing and should continue, but the main bottleneck is implementation of RRI in practice
- The roadmaps for deployment of nano, materials and production technologies for health, water and renewable energy developed in the EU-Latin American project NMP-DeLA offer a good starting point
- This includes:
  - Reliable, long term and harmonised research and funding policy (EU, Brazil and other Latin American countries)
  - Building research capacity through high quality education
  - Targeting social needs including tropical diseases, water purification and renewable energy in public-private-societal cooperation

## 04

### Conclusion

**New initiatives fostering RRI in EU-Brazilian cooperation should build upon the results of earlier work**

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