



NOVA DOCTORAL SCHOOL

2017

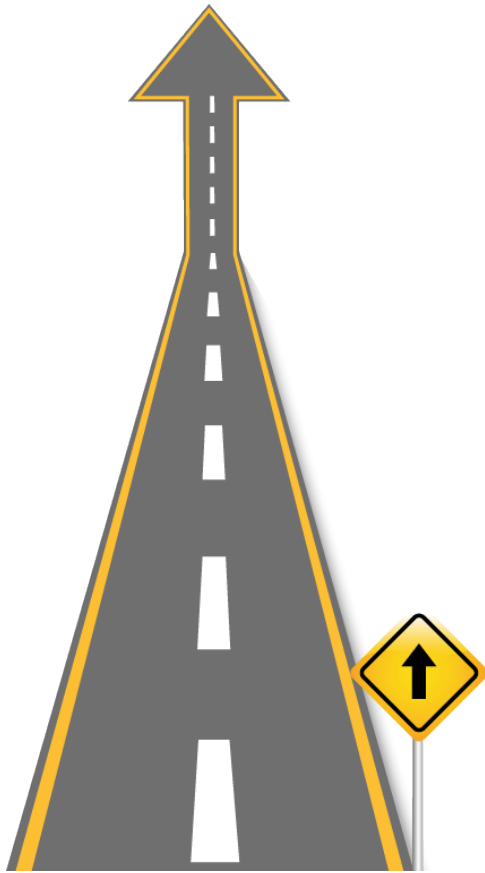
PhD: the beginning of the journey



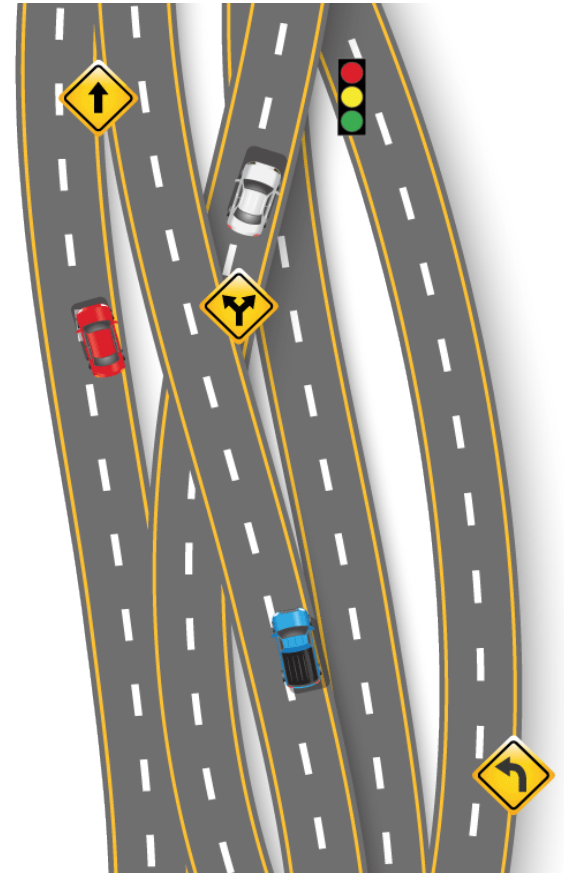
Academic Units are responsible for:

- Definition of their PhD scientific content
- Management of PhD programs

The Road



Expectations



Reality

How can we help?



- To reinforce personal and professional development of PhD students through **transferable skills training**
- To create **an open space for discussion** in NOVA
- To share **best PhD practices** and resources within NOVA

How do we do it?



Share the vision of NOVA



Create a discussion atmosphere for cross-fertilization



See other perspectives



Promote academic integrity



Collaborate with other fields



Facilitate communication of ideas



Offer useful research tools



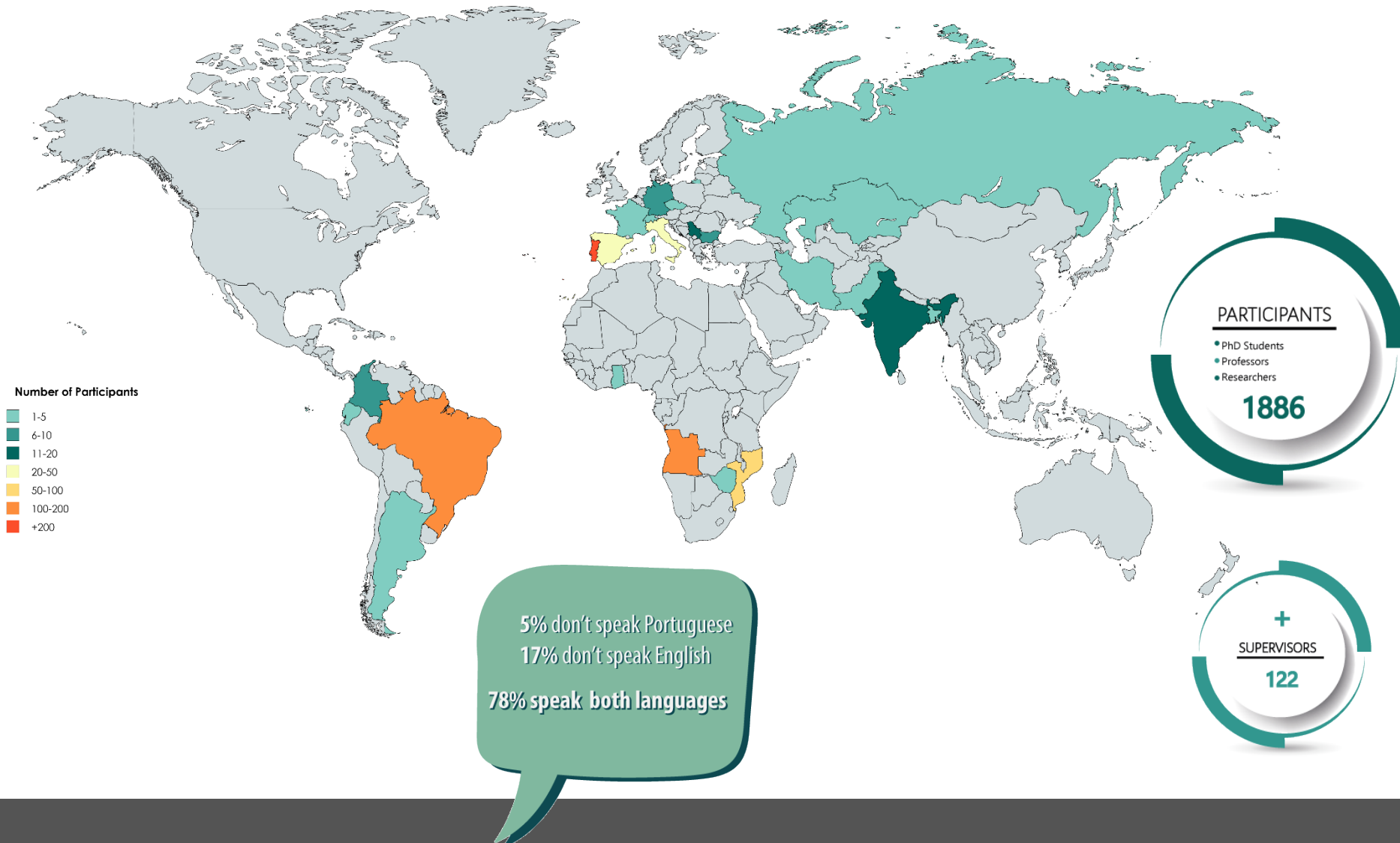
Anticipate opportunities and pitfalls

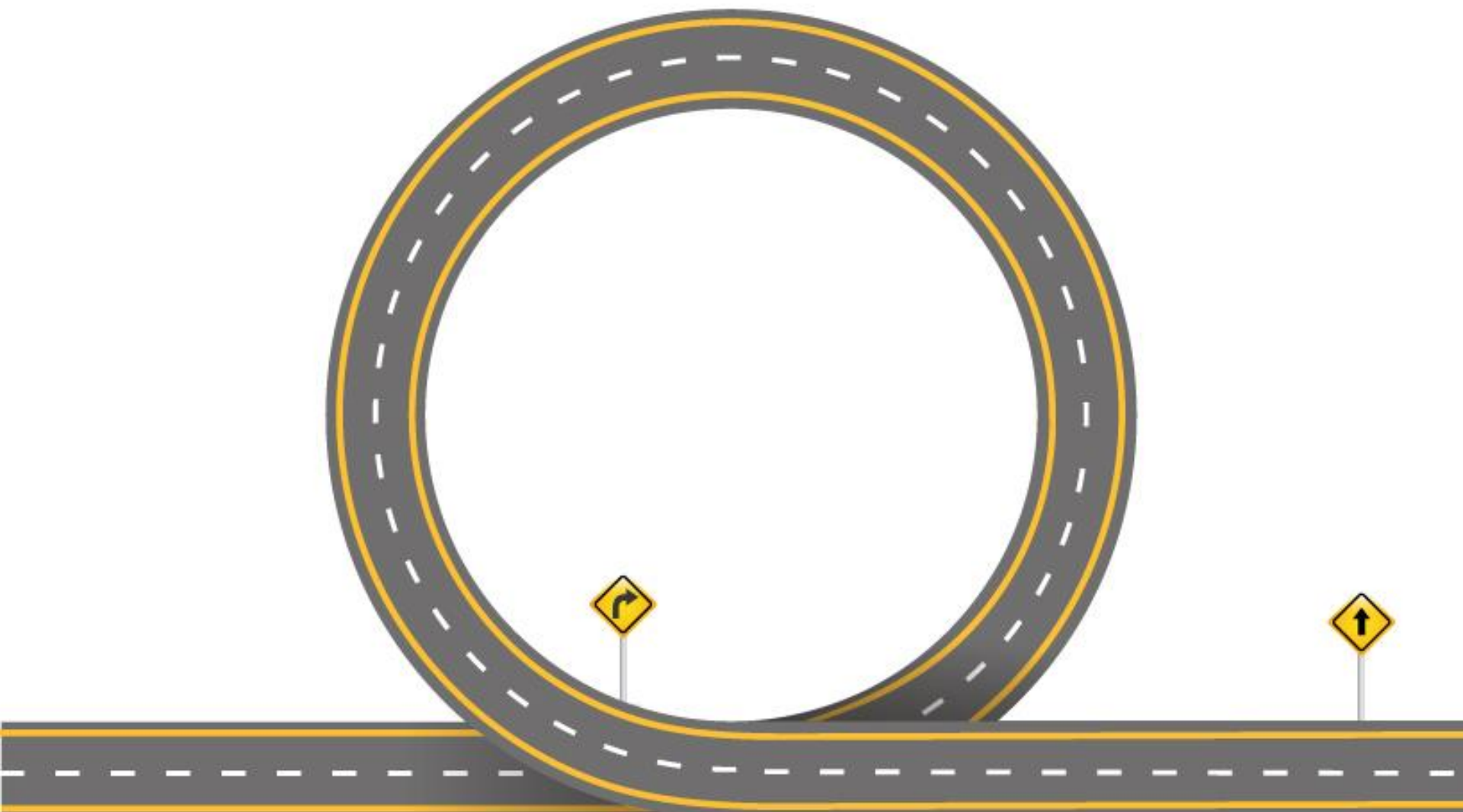
What do we offer?

- All training courses are **voluntary** and **free of charge**
- Every year we offer at least one edition in each language (English and Portuguese)
- ECTS are accounted for, in the PhD programme or in the Supplement to the Diploma
- Classes integrate students with **diverse scientific backgrounds**
- Classes take place in the various *campi* of NOVA



Who has been travelling with us?





ONE POSSIBLE PATHWAY
BUT... IT ALL DEPENDS ON THE TRAVELER.

Research Skills Development

Ideal for **early stage PhD students**.

Offers an opportunity to build **competencies and confidence** in areas relating to **personal and research effectiveness**.



RESEARCH SKILLS DEVELOPMENT

01

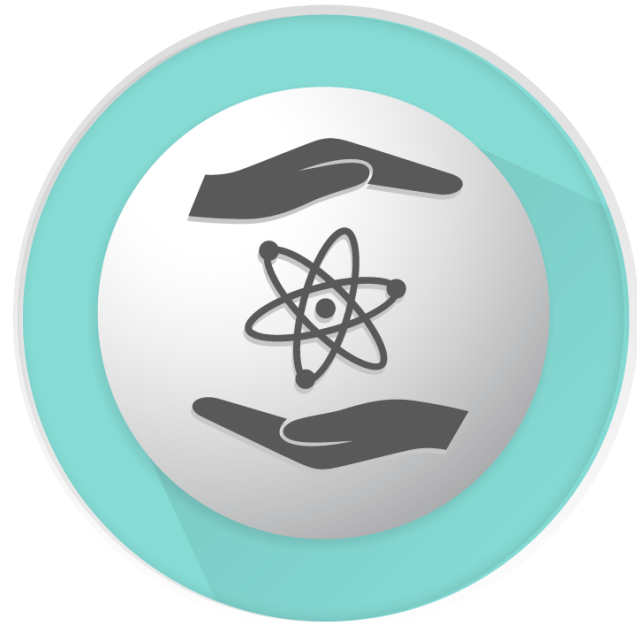
441 



Research Ethics

For those who want to:

- learn how to **manage and evaluate a research project** from an ethical standpoint
- **critically analyse research ethics topics** and case studies



RESEARCH ETHICS

02

107 



Intellectual Property

For those who need to know more about:

- **Industrial Property** (patents)
- **Copyright**
- how to do **theoretical and practical connections** between **intellectual property** and **scientific works**



INTELLECTUAL PROPERTY

104 

03



Information Literacy

Ideal for those who want to:

- define the object of information queries
- manage **search tools** and **strategies**
- evaluate information sources



INFORMATION LITERACY

139 

04



Project Management

05

113

PROJECT MANAGEMENT



For those who want to learn about:

- critical project management areas
- methodologies and **project tools**
- technical and behavioral project management skills

Design Thinking



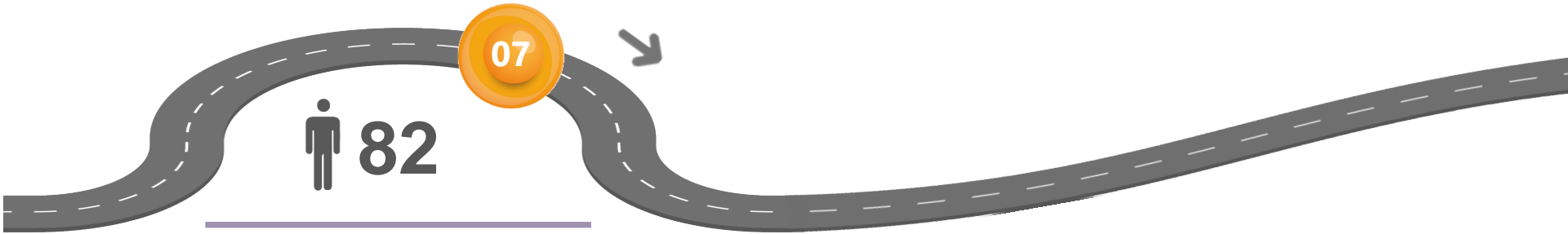
196

DESIGN THINKING



- For those who are interested in:
- tools and techniques to **think differently**
 - new opportunities
 - relevant solutions that create **positive impact**

Scientific Text Processing with Latex



SCIENTIFIC TEXT PROCESSING WITH LATEX



For those who want to know:

- how to use the LaTeX for processing scientific documents
- an **alternative text processor** useful to write papers, books and theses, or preparing slides.

Data Processing Automation (Python)



52

08

DATA PROCESSING AUTOMATION (PYTHON)



For those who are interested in:

- the programming language of **Python**
- basic **programming** techniques
- the creation of **simple scripts**

Science Communication



245

SCIENCE COMMUNICATION



For those who want an opportunity:

- to train **oral and written techniques**
- to engage both peers and lay audiences

Communicating Science Visually



102

10

COMMUNICATING SCIENCE VISUALLY



For those who need to:

- develop skills in preparing **visual or graphic materials**
- understand the importance of images and the relation between image and text

Social Media for Scientists



112

11

SOCIAL MEDIA FOR SCIENTISTS



For those who need some guidance:

- through the communication process on the web
- to properly **manage their online identity** inside and outside social media

Research Data Management



61

12

RESEARCH DATA MANAGEMENT



For those who want to know how:

- to **make data discoverable and citable**
- to manage their research data in compliance with financing agencies guidelines

Value Creation



VALUE CREATION

 102

For those interested in:

- create **value for an idea**
- entrepreneurship
- **technology transfer**
- new product development
- marketing

13

Finishing my PhD: the next 90 days



For those who are concluding the PhD or have finished recently and want to develop skills to understand, redefine and/or **change the path of a professional career.**

FINISHING MY PHD: THE NEXT 90 DAYS

 18

14



Developing Supervisory Skills



For Supervisors who want to:

- discuss supervision in general
- discuss the **role of the supervisor** at NOVA
- train supervision skills

DEVELOPING SUPERVISORY SKILLS

 122

15

Pathway



At the end of the journey...

