

SPICE: GUIDELINES FOR THE TEACHERS PANEL

1. THE SPICE PROJECT IN A FEW LINES

In December 2009 *European Schoolnet* (EUN, Belgium), *Dum zahraničních služeb MSMT* (DZS, Czech Republic) and *Direcção Geral de Inovação e Desenvolvimento* (DGIDC, Portugal) launched **SPICE**, a 2-year project funded under the European Commission's Lifelong Learning Programme (DG Education and Culture), with the aim to establish a *Science Pedagogy Innovation Centre for Europe*.

The primary objective of this project is to collect, analyze, validate and disseminate innovative pedagogical practice, especially those based on inquiry-based learning whilst enhancing pupil motivation for science studies (at primary/secondary level). SPICE will support this objective by singling out the good practice pedagogies and practices in Maths, Science and Technology, which nowadays are mostly ICT-based, and disseminating them across all Europe. The good practice criteria will allow new projects to have guidelines to ensure their innovation and quality.

2. THE TEACHERS AND EXPERTS PANELS

SPICE will include 16 participating countries. A teachers panel, along with a science experts panel, will help the SPICE partners in defining good practice projects that will then be tested in schools. In each country one Maths and/or Science teacher will be selected to be part of the SPICE teachers panel. Once the panels will be set up, the 16 teachers will have to identify 24 good practices¹(GPs) and characterize them correctly, so those GPs can be transposed and tried out in another country. Each GP will be tested in more than one country, and each teacher will use 3 different GPs, as shown in the table below. Teachers that have a GP in common will communicate with each other as much as possible. Each teacher will be trained on how to use the selected GPs but will also have to prepare the training on their one national GP. It will then be time for the testing in class, each teacher will test 3 projects, then create a report for each project tested (see example of distribution of GPs per teacher in Figure 1). Results of those trials will be shared on the occasion of a Summer school organized by DZS in the Czech Republic.

countries / projects	PT1	PT2	PT3	PT4	PT5	CZ1	CZ2	CZ3	CZ4	CZ5	PL	AT	HU	SK	DE	ES	FR	IT	SV	NL	SL	LT	UK	RO	
PT1	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
PT2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
PT3	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
PT4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
PT5	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
CZ1	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
CZ2	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
CZ3	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
CZ4	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
CZ5	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
1 PL	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
2 AT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
3 HU	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
4 SK	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
5 DE	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
6 ES	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
7 FR	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
8 IT	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
9 SV or DK or FI	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
10 NL or BE	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
11 SL	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
12 LT or EE or LV	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
13 UK or IE	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
14 RO	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

Figure 1: Simulation. Attribution of GPs will not be defined until the 2nd panel meeting.

¹ 14+5+5. Portugal and Czech Republic, due to their important role in this project, will choose 5 practices each.

3. POLICY AND PRACTICE OBSERVATORY

3.1 TEACHERS PANEL ROADMAP

It is expected from teachers to attend three international meetings, for which travel and subsistence costs will be covered by the project budget:

When	What	Where/ How	Details
21st 23rd May 2010	First panel meeting	Brussels	Introduction to Spice project, definition of a GP. Teachers bring 3 practices each and it is decided those to be chosen as GPs.
17th-19th September 2010	Second panel meeting	Portugal	It is defined how to implement the GPs, how to test them in class
October to December 2010	Moodle training on tests	Online	
January to April 2011	Testing in class	In 16 countries	
by the 13th May 2011	Teachers will have to hand their results	By e-mail	So the results are made available before the 3rd partners meeting
26th-29th of August 2011	Last meeting to share results and produce a final report	Czech Republic	Along with the Summer academy

3.2 TEACHERS TASKS LIST

As a member of the Teachers panel, your main tasks can be summed up as follows:

	Tasks	Details	Maximum time needed
1	Find the 3 projects		2 days
2	Fill in the questionnaires/info pages for each project	One questionnaire per project (=3)	1 day
3	Attend the 1st panel meeting in Brussels (arrive Friday night, leave Sunday evening)	- 1 day travel - 1.5 days meeting	2.5 days
4	Prepare extensively the one practice chosen		2 days
5	Prepare the training (moodle course) for the practice chosen		1 day
6	Attend the 2nd panel meeting in Lisbon	- 1 day travel - 1.5 days meeting	2.5 days
7	Do the training	- 1 day per teacher training 3 others - 0.5 day per trainee per each project (= 1.5 days in total for learning)	2.5 days
8	Test 3 projects	1 day per project	3 days
9	Create 3 reports	0.5 day per report	1.5 days
10	Attend the Summer school	- 1 day travel - 2 days workshop	3 days
Total		8 meeting days + 13 days of work	21 days

In addition, SPICE teachers will be expected to actively contribute to the Communities of Practice (CoPs) beyond their launch, which will take place during the Summer school.

- Number of meeting days: 8 days including travel (travel and subsistence covered by the project budget);
- Number of working days: 13 days (day rates covered by the project budget);
- Total number of days needed: **21 days**.

3.3 STIPEND AND BENEFITS FOR TEACHERS

- Trips to Brussels, Lisbon and Prague (both travel & subsistence covered by project budget);
- **1924 €** for the additional 13 days of work;
- Possibility to interact with other MST teachers of Europe.

3.4 TEACHERS CHARACTERISTICS

- Basic knowledge of English (writing, understanding, reading);
- Able to attend meetings according to schedule defined above;
- The target students will be 12-15 year-olds, as “the sooner the better” to convince them MST studies are attractive, in particular Maths, Physics, Chemistry, Biology (+ subjects that contain them, e.g. “science”);
- Interest in learning and sharing experiences and good practices;
- Must agree to be part of both the SPICE and the Scientix teachers panels.

4. DRAFT AGENDA FOR THE 1ST PANEL MEETING IN BRUSSELS

	22 May 2010	23 May 2010
9:00 – 11:00	<i>SPICE</i>	<i>SPICE</i>
11:00 – 13:00	<i>SPICE</i>	
14:00 – 16:00	<i>SPICE</i>	
16:00 – 18:00	<i>SPICE</i>	