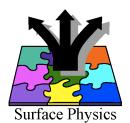


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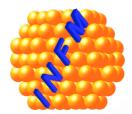
# PaGES: an introduction



Fabio Mazzolini









## Today's programme

- •Introduction to PaGES (F.Mazzolini)
- •CERIC-ERIC (F.Mazzolini)
- •Elettra (A.Goldoni)
- •Fundamentals of Project Management (R.Pugliese, A.Santelli))



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## PaGES Project

Pianificazione, Gestione ed esecuzione di un Esperimento Scientifico in un centro di ricerca internazionale – PaGES

(Planning, Management, Measurement, Communication)

PaGES is a "special project" funded by FVG Region by means of the "Bando per il finanziamento dei progetti speciali – Decreto n.764 08/04/15".

www.ceric-eric.eu/PaGES



#### PaGES: Partners

- CERIC-ERIC
- Liceo Scientifico G. Galilei di Trieste
- I.S.I.S. Dante Alighieri, nello specifico la sezione associata Liceo Scientifico Duca degli Abruzzi di Gorizia
- I.S.I.S. Bassa Friulana, nello specifico la sezione associata Liceo Scientifico A. Einstein di Cervignano del Friuli (UD)
- Kyma S.r.I.

Coordinatore del progetto: Fabio Mazzolini (CERIC-ERIC)

fabio.mazzolini@ceric-eric.eu



## PaGES: Structure (I)

#### PaGES is based on 7 main "events":

**Evento 1** (kick-off meeting) - 2 ore, CERIC-ERIC c/o Elettra Presentazione progetto a Dirigenti e Docenti dei Licei Scientifici

Evento 2 – 3 ore, Liceo

Presentazione progetto.

Presentazione dell'esperimento, pianificazione delle attività e elementi di project management.

Evento 3 - 3 ore, Liceo

Preparazione esperimento e presentazione della strumentazione che sarà utilizzata in laboratorio.

## PaGES: Structure (II)

Evento 4 - 8 ore, CERIC-ERIC c/o Elettra Sincrotrone Trieste.

- Attività sperimentale.
- Pranzo e attività di socializzazione.
- Analisi preliminare dei dati raccolti.



## PaGES: Structure (III)

**Evento 5** - 3 ore, Liceo Elaborazione dati, preparazione report, tecniche di comunicazione e disseminazione (teoria e pratica)

Evento 6 - 2 ore, Liceo

Organizzazione, da parte di ogni scuola partner, di un evento divulgativo presso il proprio istituto, per la condivisione dell'esperienza con le altre classi quarte e quinte da parte degli studenti di ogni Liceo che hanno partecipato al progetto.

#### Evento 7

Chiusura progetto con Dirigenti e Docenti dei Licei Scientifici.



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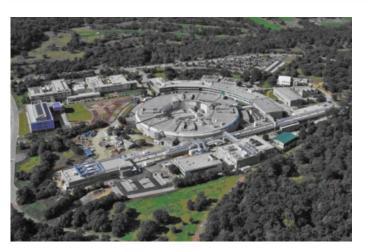


#### **CERIC-ERIC:** Members





## CERIC-ERIC: Partner Facilities (I)



Italy

Elettra
Sincrotrone
Trieste



**Poland** 

Synchrotron Solaris



Hungary

Budapest Neutron Center



Slovenia

NMR
National Institute
of Chemistry



## CERIC-ERIC: Partner Facilities (II)









**Austria** 

**Czech Republic** 

Croatia

Romania

Scattering

Surface analysis

Ion Beam

TEM and EPR

TU Graz and Elettra

Charles University Prague and Elettra

Ruder-Boskovic Institute

National Institute for Material Physics



#### CERIC-ERIC: What is it?

- CERIC-ERIC is a European Research Infrastructure Consortium (ERIC) established in compliance with the Regulation (EC) no. 723/2009 by the European Commission upon a formal proposal of six Countries, by the European Commission Implementing Decision of June 24<sup>th</sup>, 2014, ref. no. 2014/392/EU.
- The founding Members of CERIC-ERIC are the Governments of Austria, Czech Republic, Italy, Romania, Serbia and Slovenia.
- Very recently Poland joined the consortium.
- CERIC-ERIC is open to the accession of new members; Croatia and Hungary are currently in a pre-accession phase.

## **CERIC-ERIC:** Facts & Figures

- 9 participating Countries (7 Members + 2 "in progress")
- 8 facilities offering integrated services to science and industry
- 400 researches & technical staff involved
- 42 complementary R&D methods and techniques available through one single entry point
- Over 100 requests by users from over 15 countries in the first year of operation



**CERIC:** Mission

"The mission of CERIC is to integrate the national Partner Facilities into a unique facility performing excellent scientific and technical activities, driving quality in science as well as in technology and education, by attracting high quality international users and thus exposing the facilities and the national communities to international competition and collaboration."



#### **CERIC:** More information



www.ceric-eric.eu



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#### Elettra: What is it?

Elettra Sincrotrone Trieste is a multidisciplinary international laboratory of excellence, specialized in generating high quality synchrotron and free-electron laser light and applying it in materials and bio-materials science.

Its mission is to promote cultural, social and economic growth through:

- <u>Basic</u> and <u>applied research;</u>
- <u>Technical</u> and <u>scientific training</u>;
- <u>Transfer</u> of <u>technology</u> and <u>know-how</u>.



Elettra: What is it? (cont.)

Every year scientists and engineers from more than 50 different countries compete by submitting proposals to access and use time on Elettra experimental stations.

**Proposals** are **selected** by peer-reviewed **by** panels of **international experts** on the basis of **scientific merit** and potential impact, and the winners are granted valuable access time as a contribution to their research (**free open access**).



## Elettra: What is it? (cont.)

Elettra main assets are two advanced light sources, the electron storage ring Elettra and the free-electron laser (FEL) FERMI, continuously (h24/d7) operated supplying light of the selected "colour" and quality to more than 30 experimental stations.

These facilities enable the international community of researchers from academy and industry to characterize (bio)material properties and functions with sensitivity down to molecular and atomic levels, to pattern and nanofabricate new structures and devices, and to develop new processes.



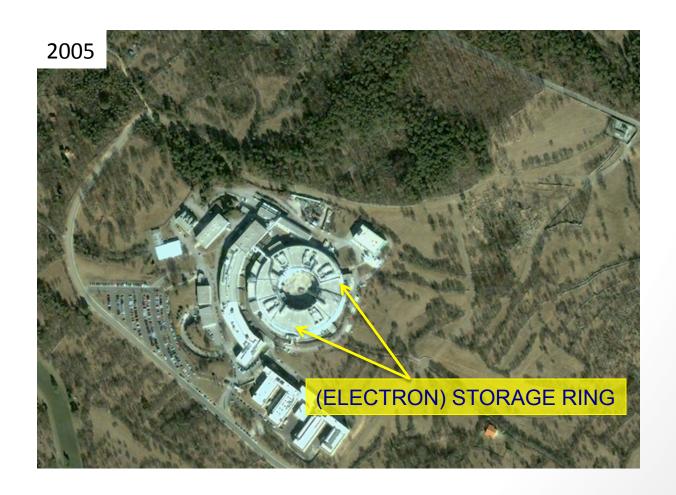
#### Elettra



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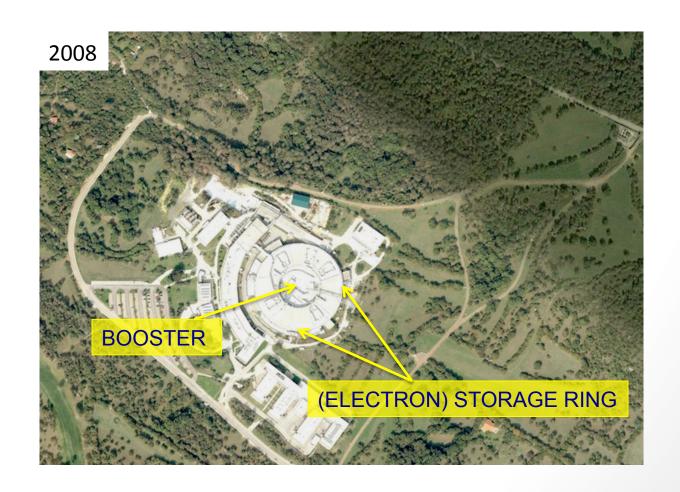
#### Elettra



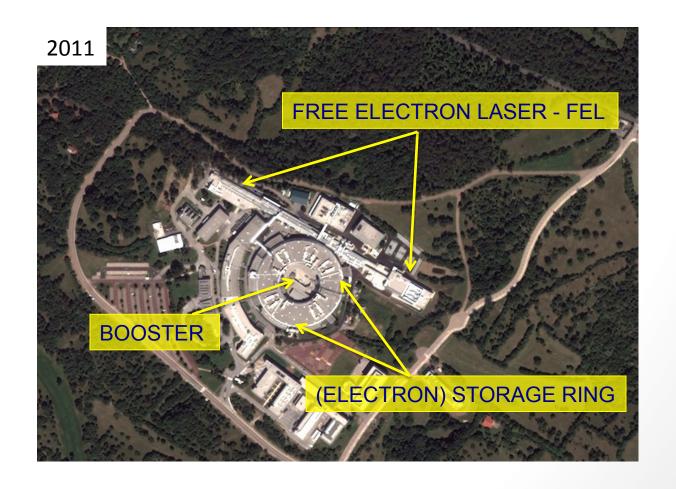
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#### Elettra

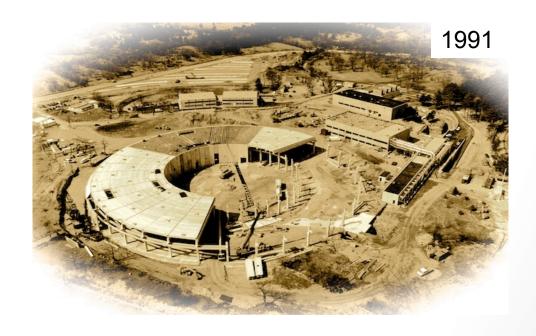






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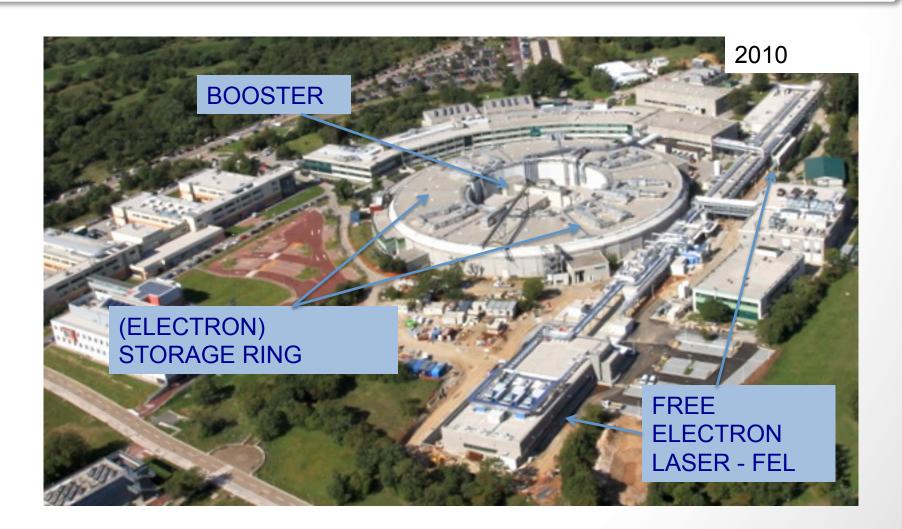












February 2016



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## Thank you!

















