# ALBA Synchrotron Light Facility

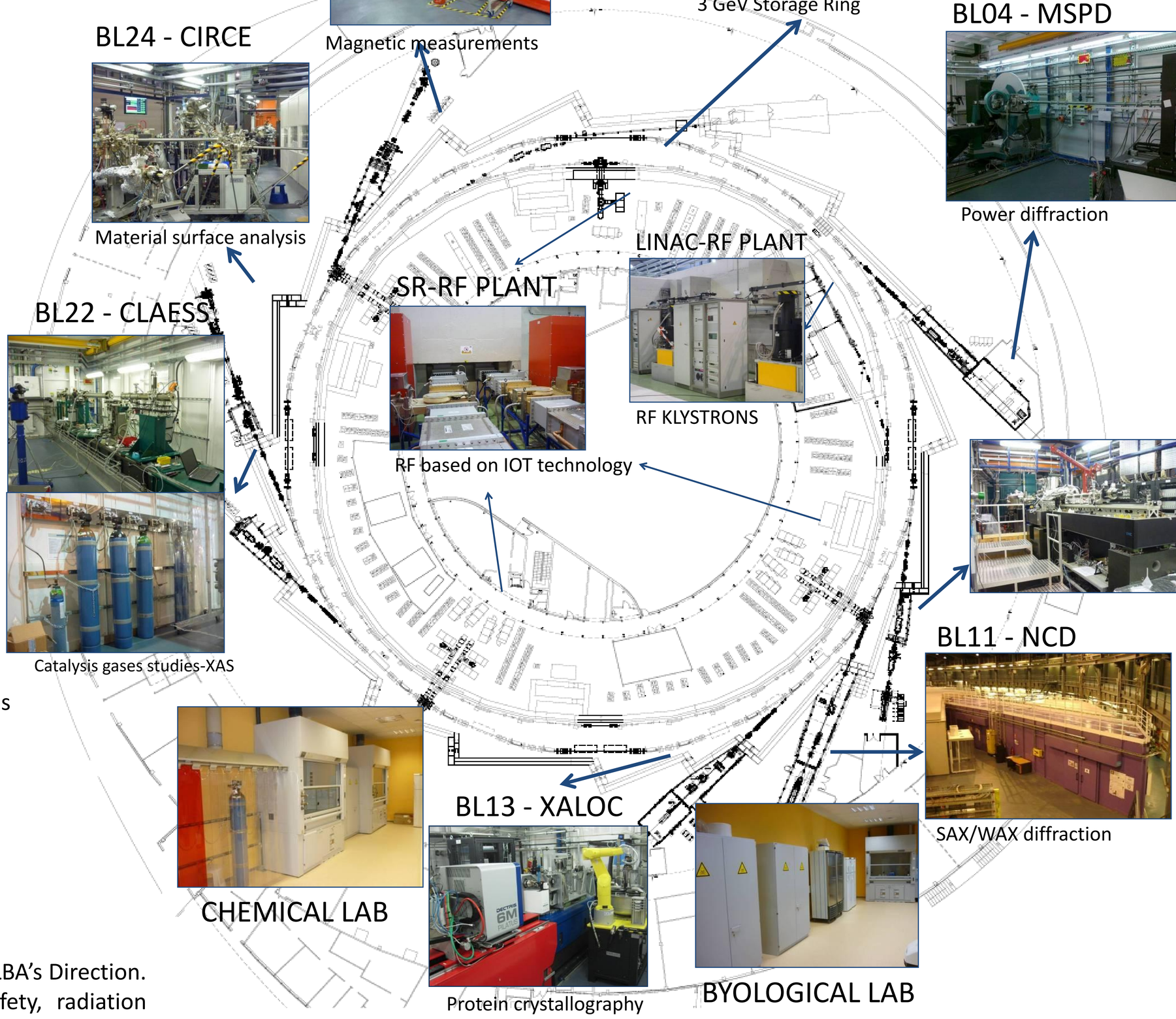
FONT DE LLUM DE SINCROTRÓ
FUENTE DE LUZ DE SINCROTRÓN
SYNCHROTRON LIGHT SOURCE

## MAIN CHARACTERISTICS

• Three electron accelerators are operating at ALBA facility: a 130 MeV linear accelerator, a 130 MeV - 3.0 GeV booster synchrotron and a 3.0 GeV (250 meter circumference) Storage Ring. Nominal current 250 mA (now: 135 mA)
• Nowadays there are 7 beam lines in operation (maximum capacity of 32): 4 hard X-ray and 3 soft X-ray. The possible experiments type are:

| BL# | Name | Experiment type |
|---|---|---|
| BL04 | MSPD | Powder diffraction |
| BL09, | MISTRAL | X-ray microscopy |
| BL11 | NCD | Biological samples diffraction |
| BL13 | XALOC | Protein crystallography |
| BL22 | CLAESS | Catalysis gases process |
| BL24 | CIRCE | Surface analysis |
| BL29. | BOREAS | Magnetic particles studies |

• There are also support labs for the accelerators and the beam lines, like: RF cavities, vacuum, power supplies, biology, chemistry, metrology, material science and magnetic measurements.

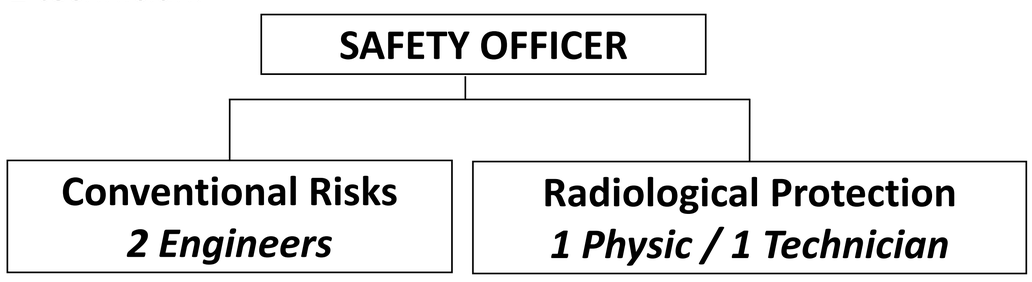



## MILESTONES

2002: ALBA Project is approved by the authorities
2006: The construction begins
2008: LINAC commissioning & first e-beam
2010: ALBA opening ceremony
2011: First e-beam in the Storage Ring
2012: First scientific experiment by ALBA users

## H & S ORGANITATION

The ALBA Health & Safety Group is under the ALBA's Direction. It deals with all matters of conventional safety, radiation protection. The H&S Group's manpower includes 2 physics and 2 engineers and 1 technician.




## THE STAFF

The present ALBA team consists of about 160 employees distributed in: administration staff, engineers, accelerator physics, beam line scientists, computing & control engineers, support staff and technicians.

## MAIN RISKS

The main risks at ALBA are the standard ones for a synchrotron light facility, which are concerning our staff, our users or coming from the external contractors companies (supporting the installation or doing the maintenance activities):
Ionizing & non-ionizing radiation, electrical, chemical, biological, mechanical, cryogenics and pressurized gases among others.