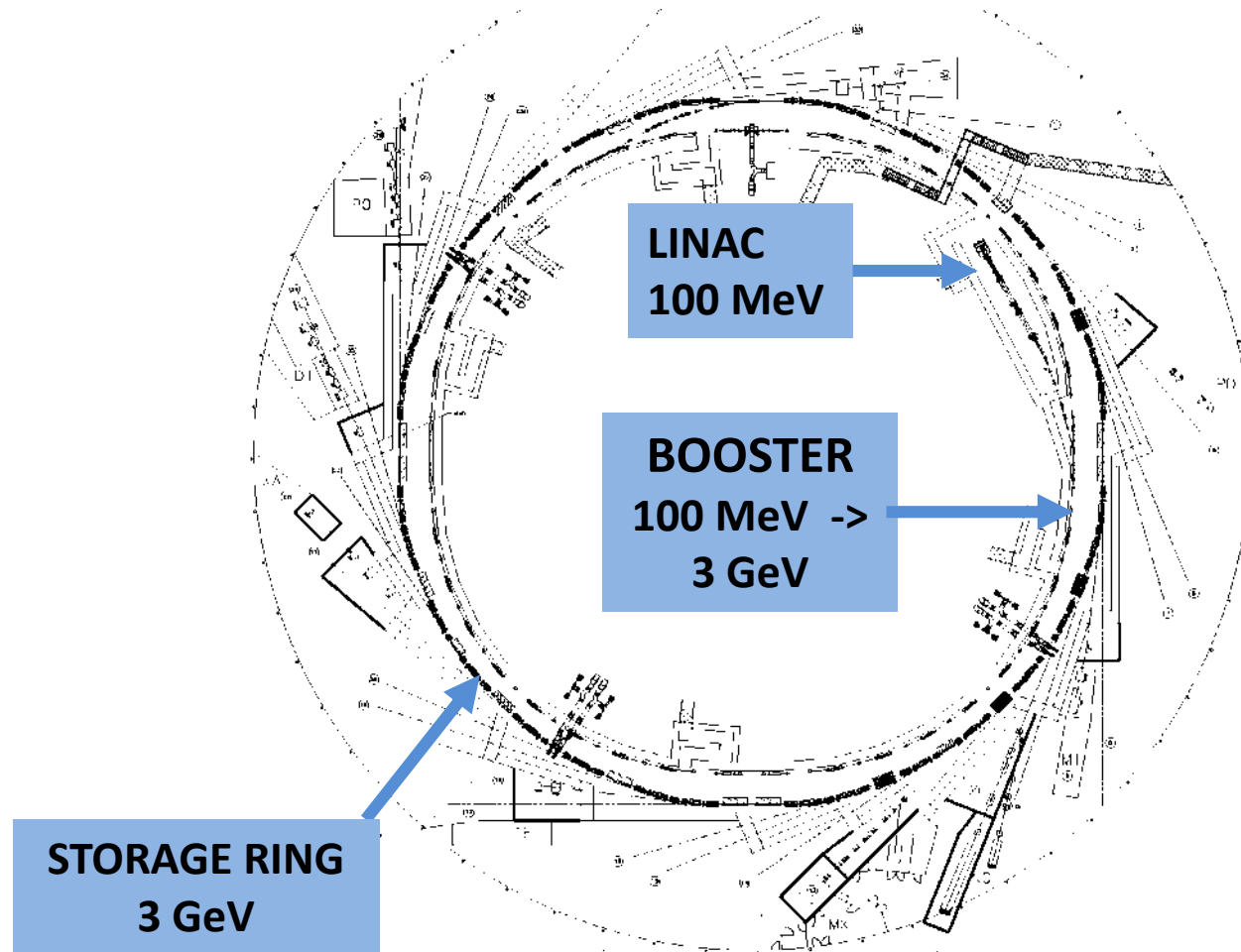




ALBA Synchrotron Light Source

Montse Pont & Nuria Ayala

Layout



Beamlines

BL29: BOREAS
 EU71– (0.08-3 keV)
 Resonant Absorption
 and Scattering

BL24: CIRCE
 EU62– (0.1-2 keV)
 Photoemission
 spectroscopies

BLXX: FaxTor
 ID: 3 pole wiggler
 Hard x-ray tomography

BL22: CLÆSS
 MPW80– (2-63 keV)
 Absorption &
 Emission Spectroscopies

BL20: LOREA
 EU125 – (10-450 eV)
 ARPES

BL16: NOTOS
 Bending
 Metrology, XAS

BL13: XALOC
 IVU21 – (5-22 keV)
 Macromolecular Cristallography

Bending: e⁻ Diagnostics

BL01: MIRAS
 Bending – (0.4-100 μm)
 IR Spectroscopy

BL04: MSPD
 SCW31 – (8-50 keV)
 HP/HR
 Powder Diffraction

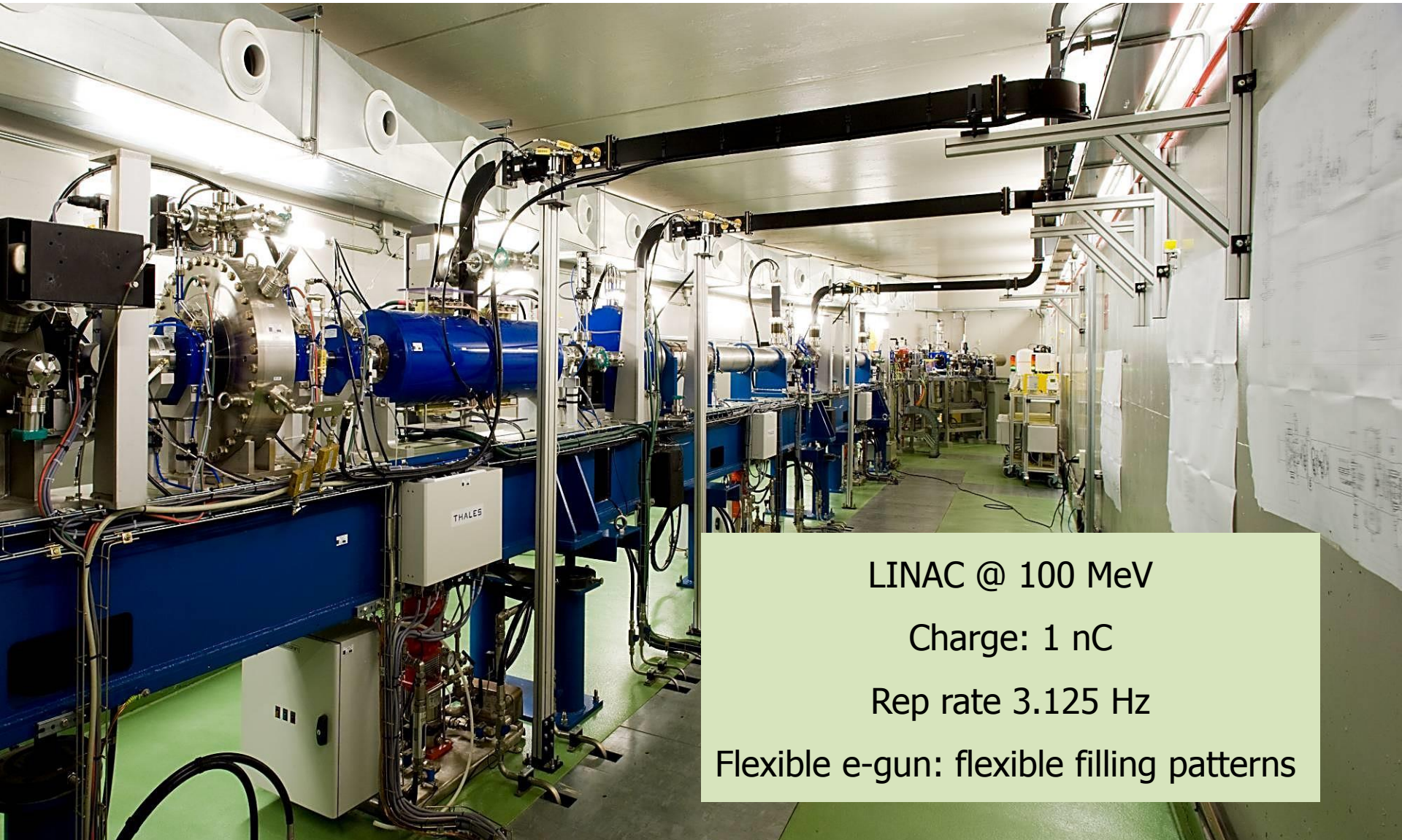
In operation (8)

In construction (4)

BL06: XAIRA
 IVUXX (~5-25 keV)
 Macromolecular Cristallography

BL09: MISTRAL
 Bending– (0.27-2.6 keV)
 X ray Microscopy

BL11: NCD
 IVU21– (6-13 keV)
 Non Cristalline Diffraction
 SAXS/WAXS



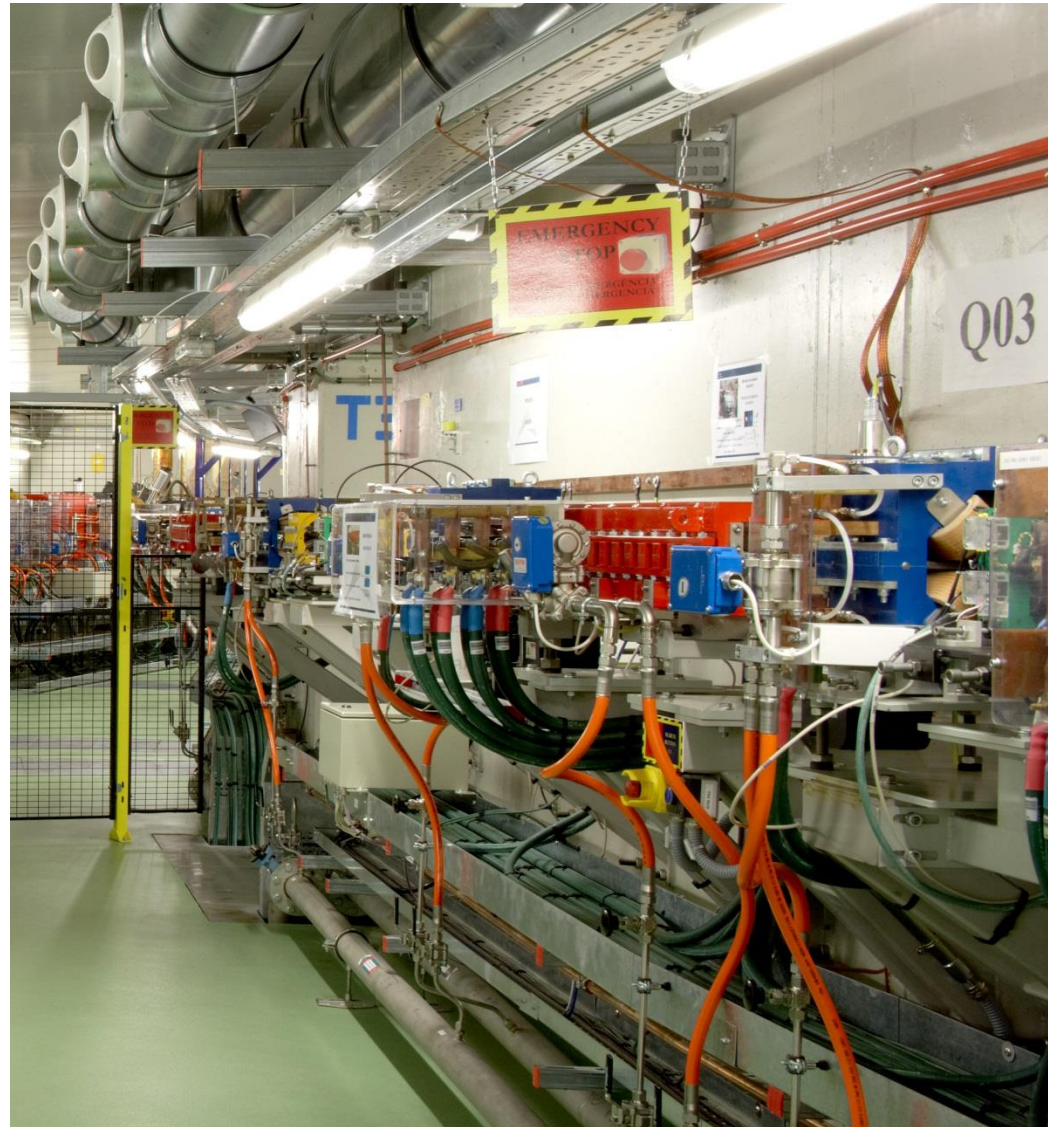
LINAC @ 100 MeV

Charge: 1 nC

Rep rate 3.125 Hz

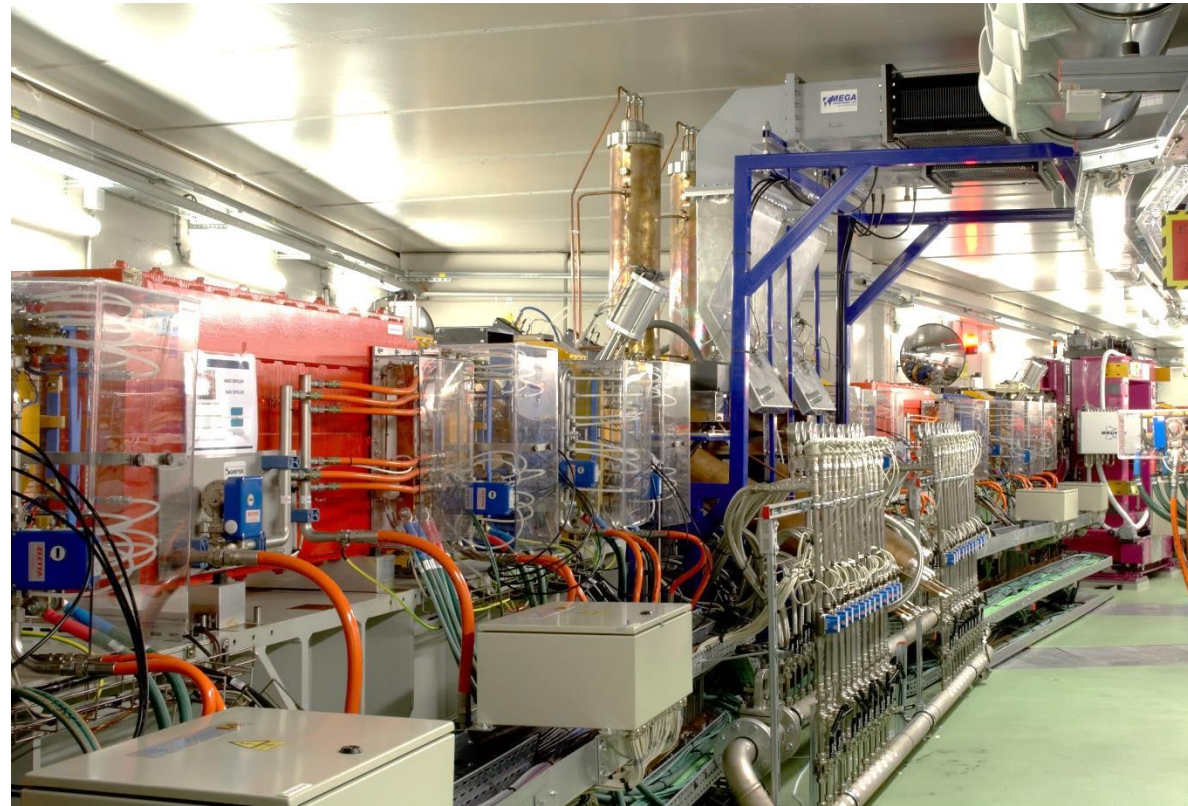
Flexible e-gun: flexible filling patterns

Parameter	Value
Nominal inj E	100 MeV
Minimum inj E	60 MeV
Nominal ext E	3 GeV
Circumference	249.6 m
Emittance	10 nm·rad
Nominal Current	1 mA
Rf frequency	500 MHz
# cavities	1
In the same tunnel as the SR	



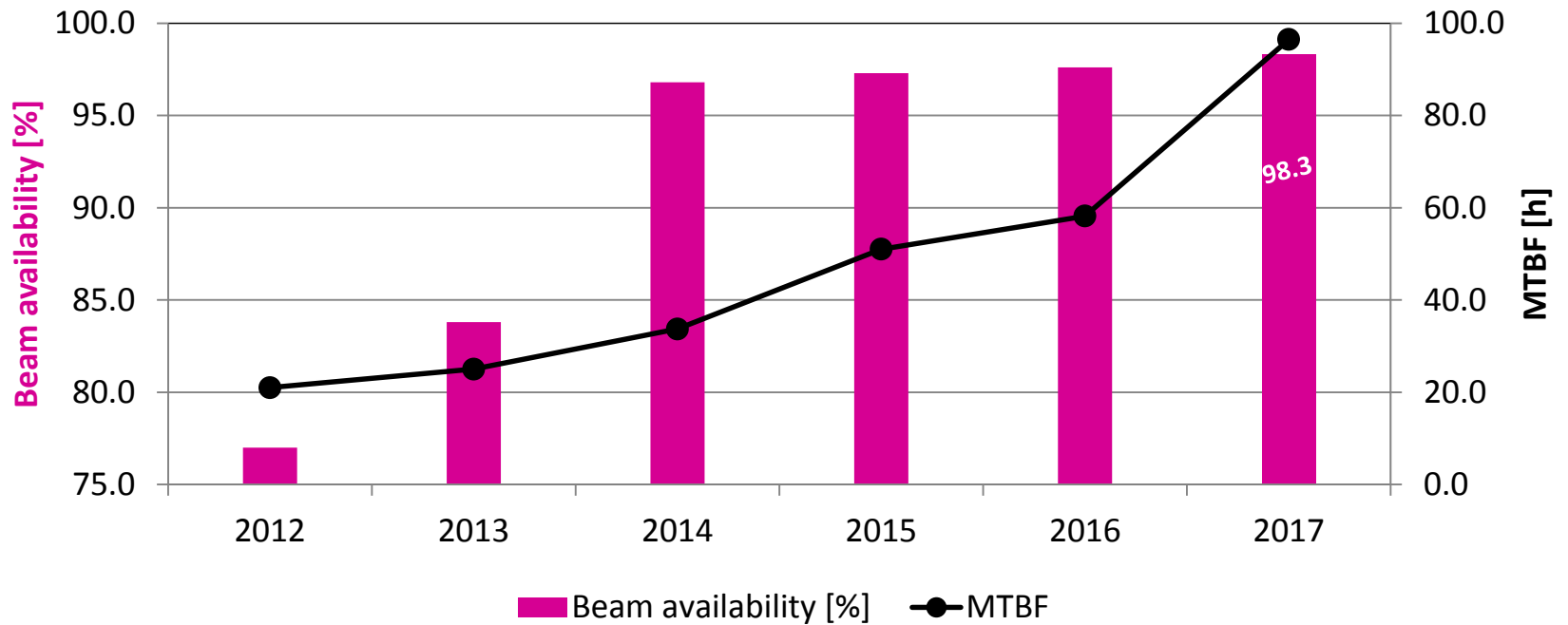
Storage Ring

Parameter	Value
Energy	3 GeV
Circumference	269.9 m
Emittance	4.5 nm·rad
Nominal Current	250 mA
Rf frequency	500 MHz
# cavities	6
Long straights	4 (8 m)
Medium straights	12 (4 m)
Short straights	8 (2 m)



Operational performance

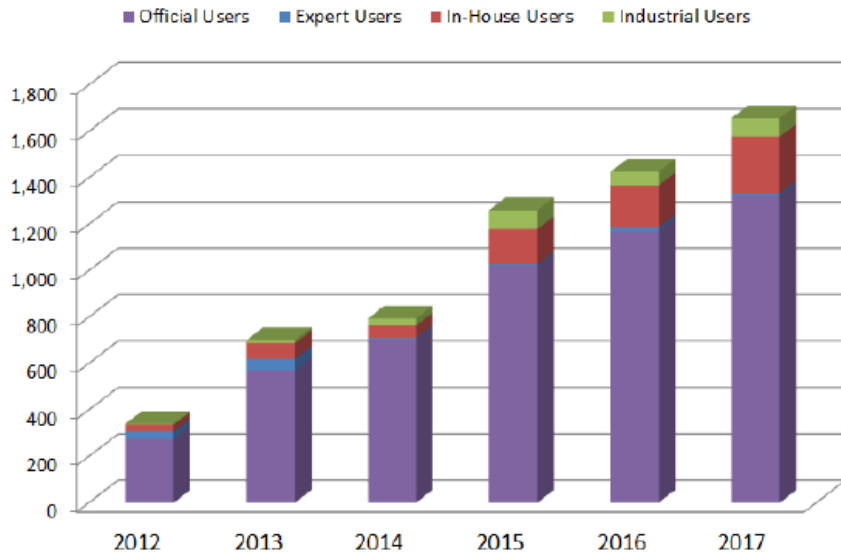
Beam availability and MTBF



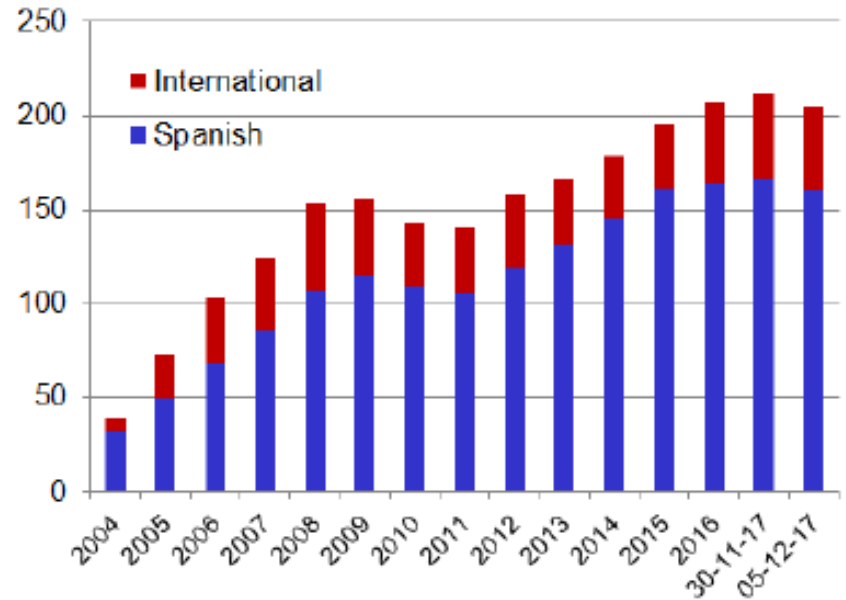


Users & Staff

Yearly users



Users



Staff