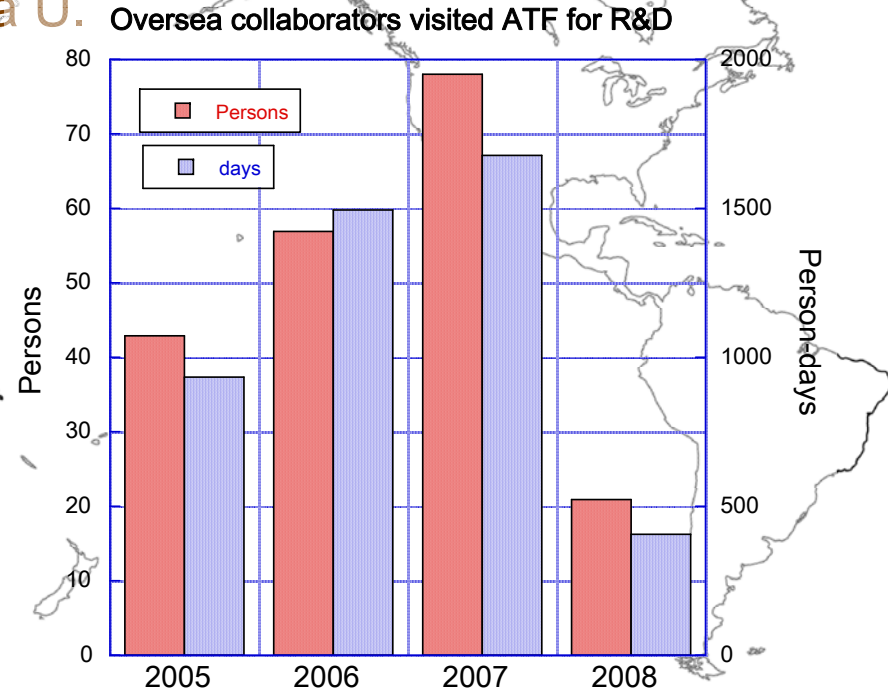
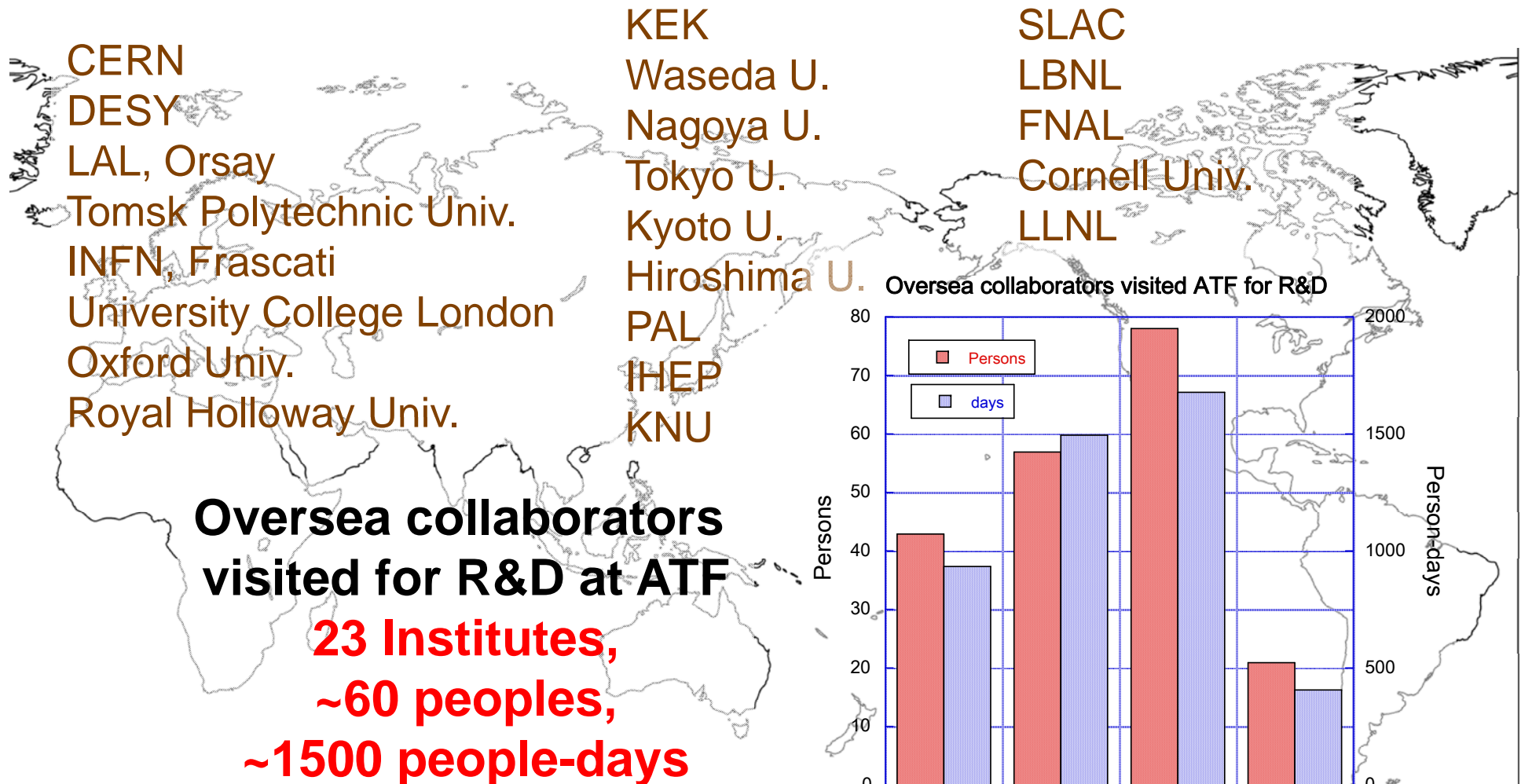


Greeting for 7th ATF2 project meeting



ATF International Collaboration



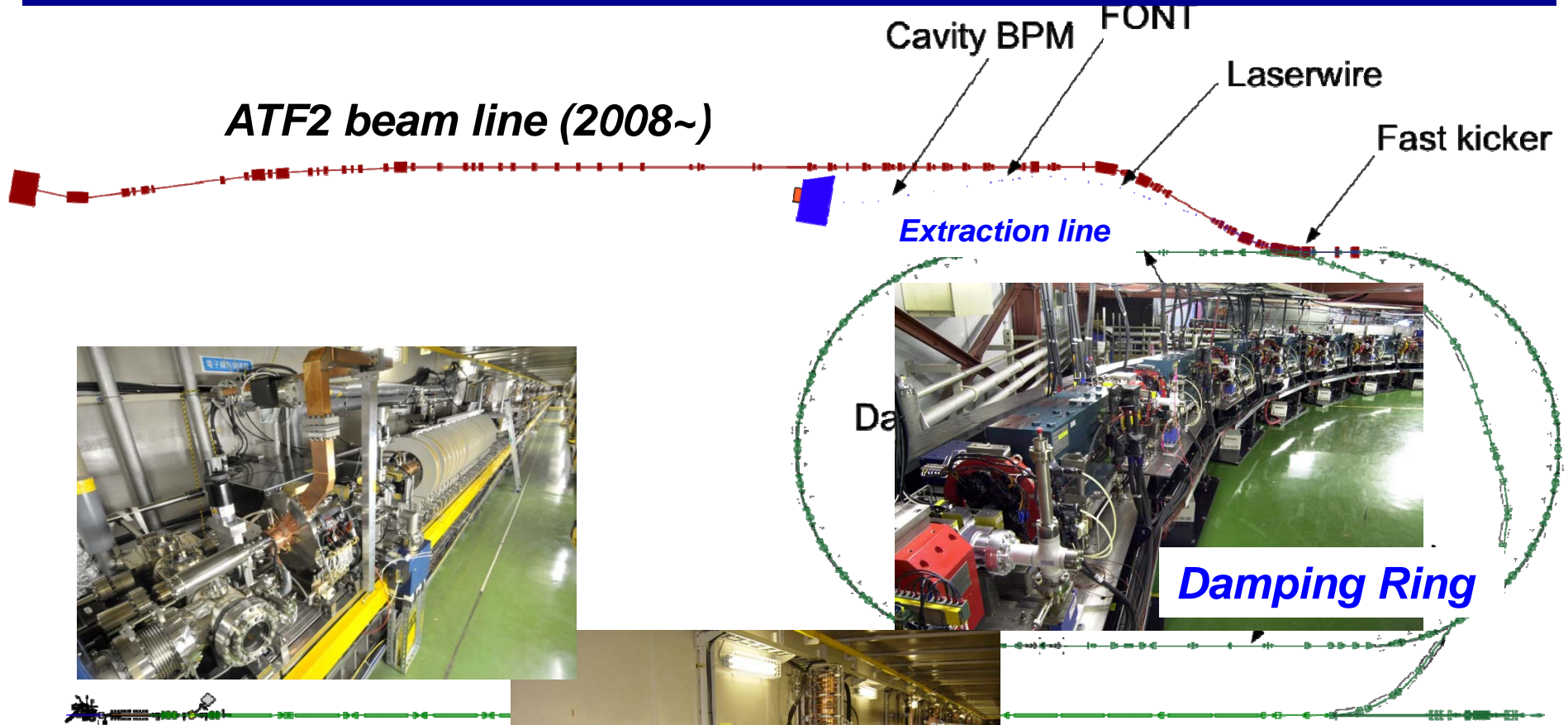
Meeting for ATF operation in Spring



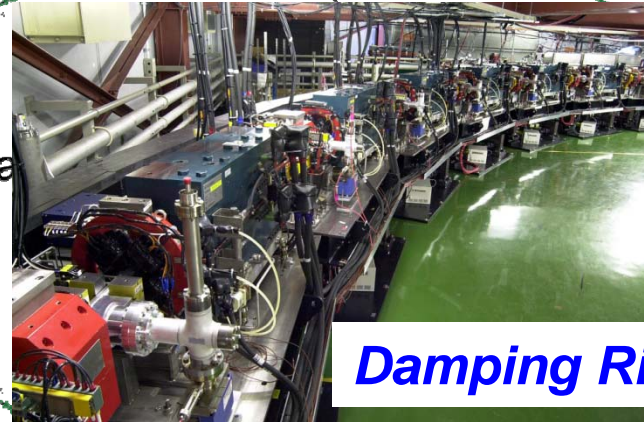


Accelerator Test Facility

ATF2 beam line (2008~)



**Photo-cathode RF gun
(electron source)**



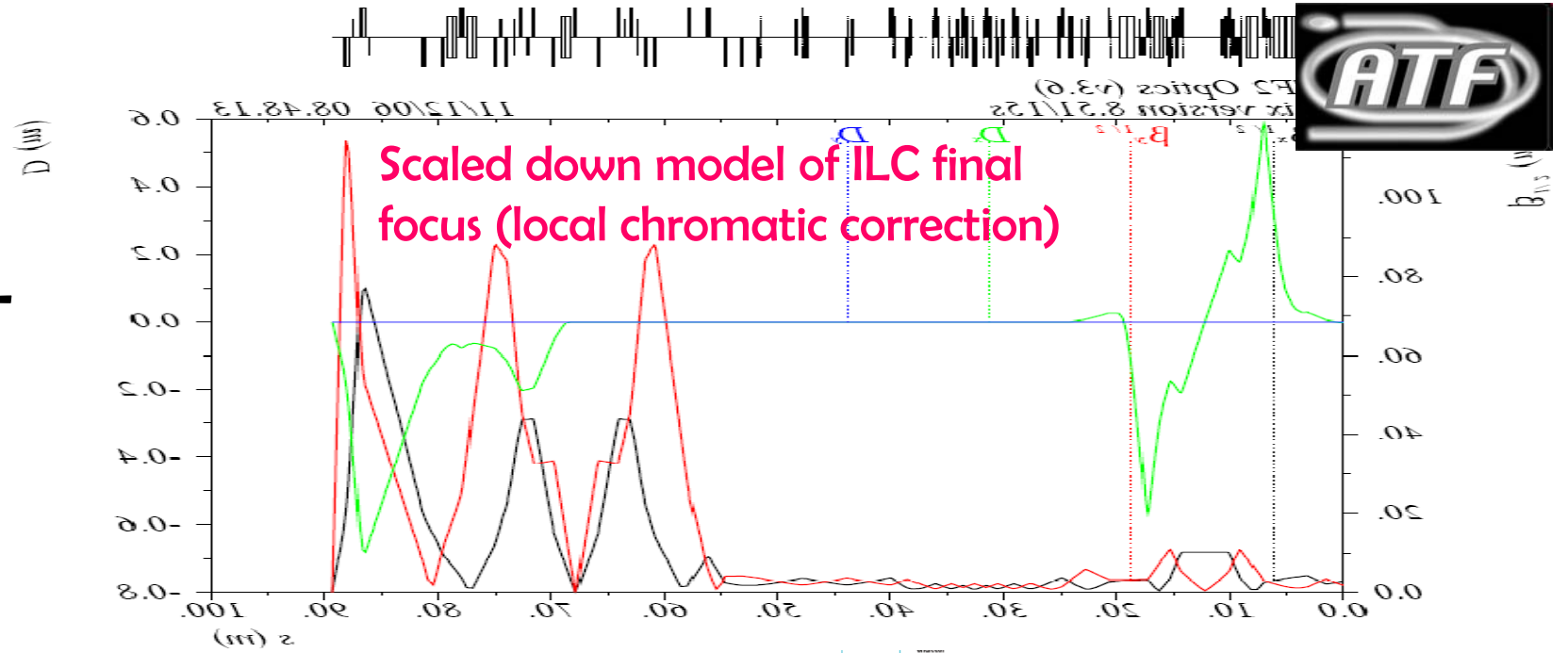
Damping Ring



S-band Linac
 Δ f ECS for multi-bunch beam

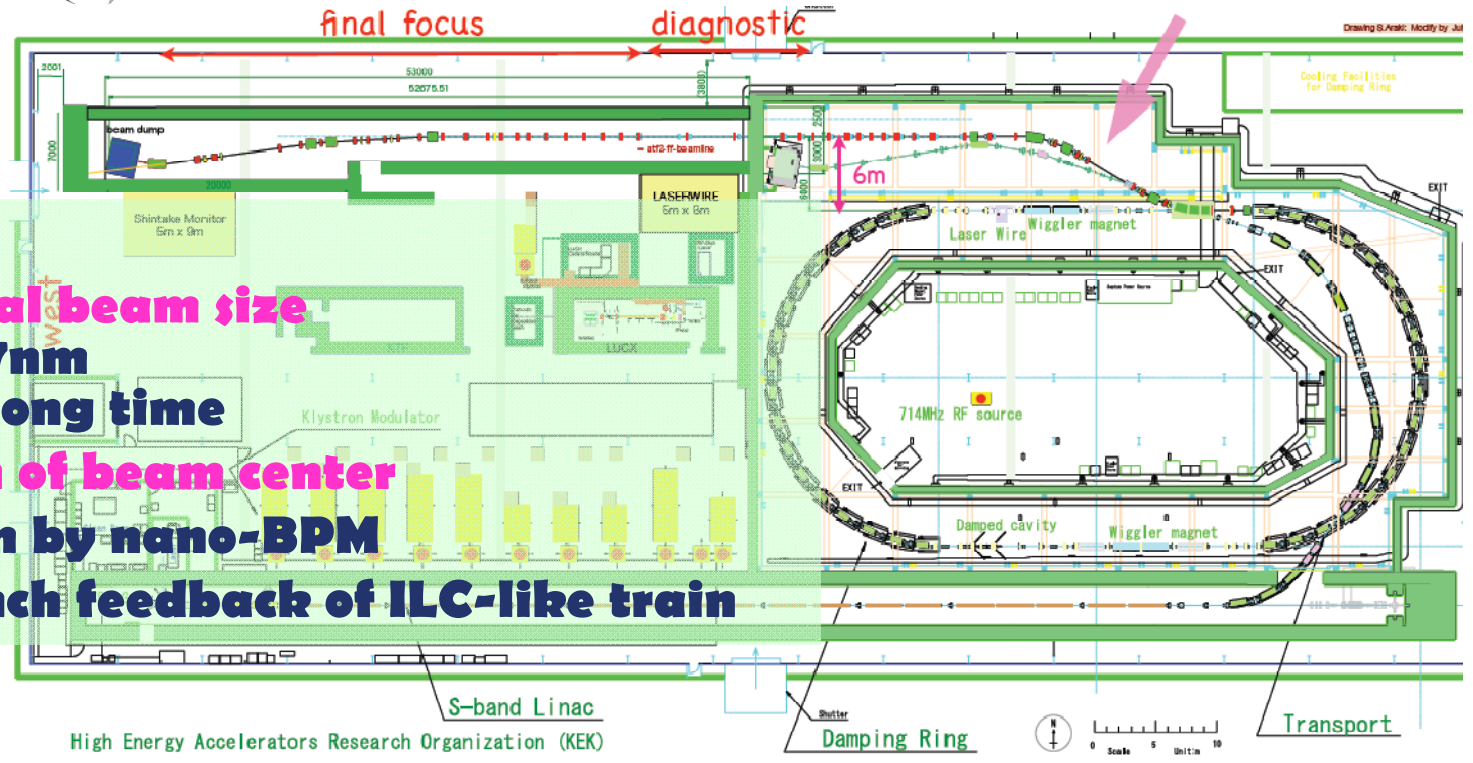


ATF2 – model of ILC BDS

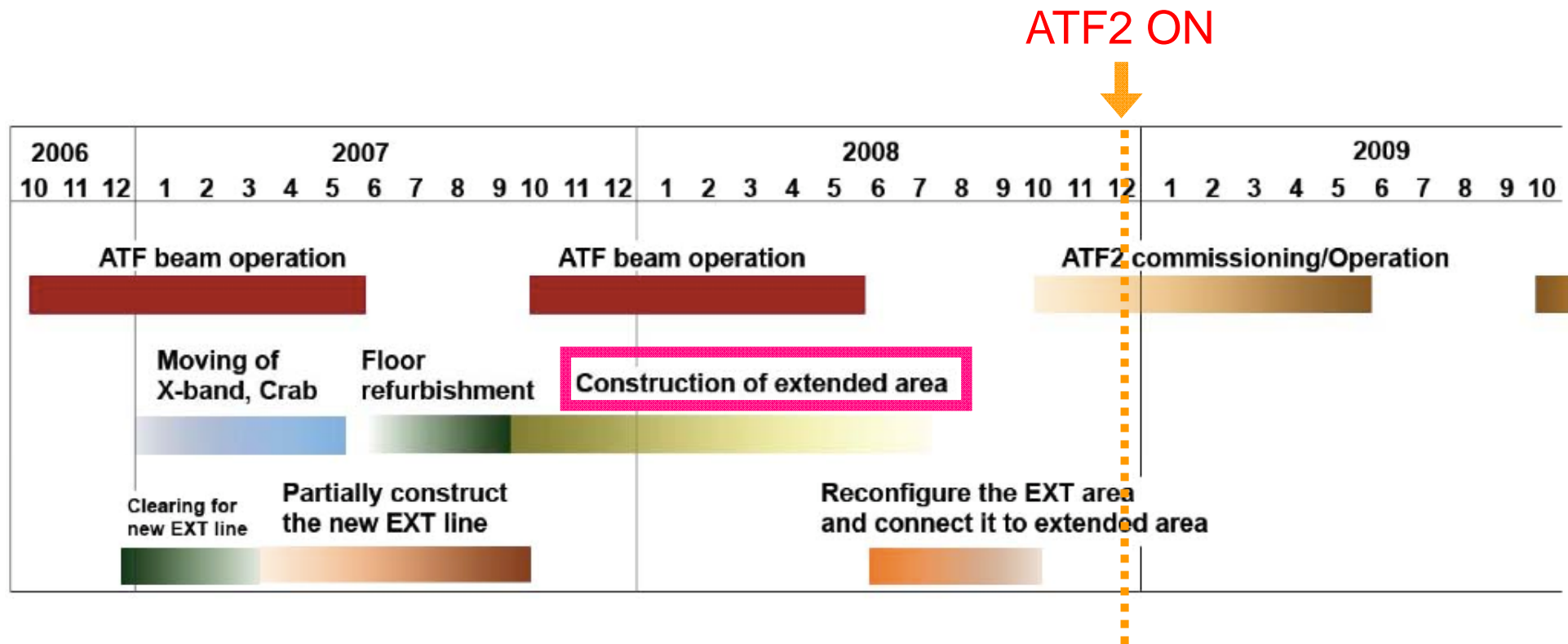


ATF2 goals

- (A) **Small nominal beam size**
Obtain $\sigma_y \sim 37\text{nm}$
Maintain for long time
- (B) **Stabilization of beam center**
Down to $< 2\text{nm}$ by nano-BPM
Bunch-to-bunch feedback of ILC-like train



ATF – beam operation schedule



Commissioning to start in Dec. 2008

We got the temporary permission to operate ATF2 in Dec.. I think we will get the formal permission from MEXT in Jan.. Then, we can carefully operate ATF2 for beam commissioning. Thank you for your understanding in this situation.

Necessary Deliverables from TF for BDS and DR



Test Facility	Deliverable	Date
<i>Hardware development, Optics and stabilisation demonstrations:</i>		
ATF	Demo. of reliable operation of fast kickers meeting the specifications for the ILC damping ring.	2010
	Generation of 1 pm-rad low emittance beam	2009
ATF2	Demo. of compact Final Focus optics (design demagnification, resulting in a nominal 35 nm beam size at focal point).	2010
	Demo. of prototype SC and PM final doublet magnets	2012
	Stabilisation of 35 nm beam over various time scales.	2012
<i>Electron cloud mitigation studies:</i>		
CESR-TA	Re-config. (re-build) of CESR as low-emittance e-cloud test facility. First meas. of e-cloud build-up using instrumented sections in dipoles and drifts sections (large emittance).	2008
	Achieve lower emittance beams. Meas. of e-cloud build up in wiggler chambers.	2009
	Characterisation of e-cloud build-up and instability thresholds as a func. of low vertical emittance (≤ 20 pm)	2010
DAΦNE	Fast kicker design and pulser reliability check	2010
	Characterisation of e-cloud build-up and instability thresholds	2010

- Thanks to many colleagues from the ATF Collaboration, those on this photo.



5th ATF2 Project Meeting, 19-21 Dec. 2007

Photo for
7th ATF2 Project Meeting, 15-18 Dec. 2008



I hope we will get a good discussion and results during ATF2 project meeting and TB meeting.

Enjoy 忘年会(End year Party) at the end of this meeting.

Thank you for your attention.