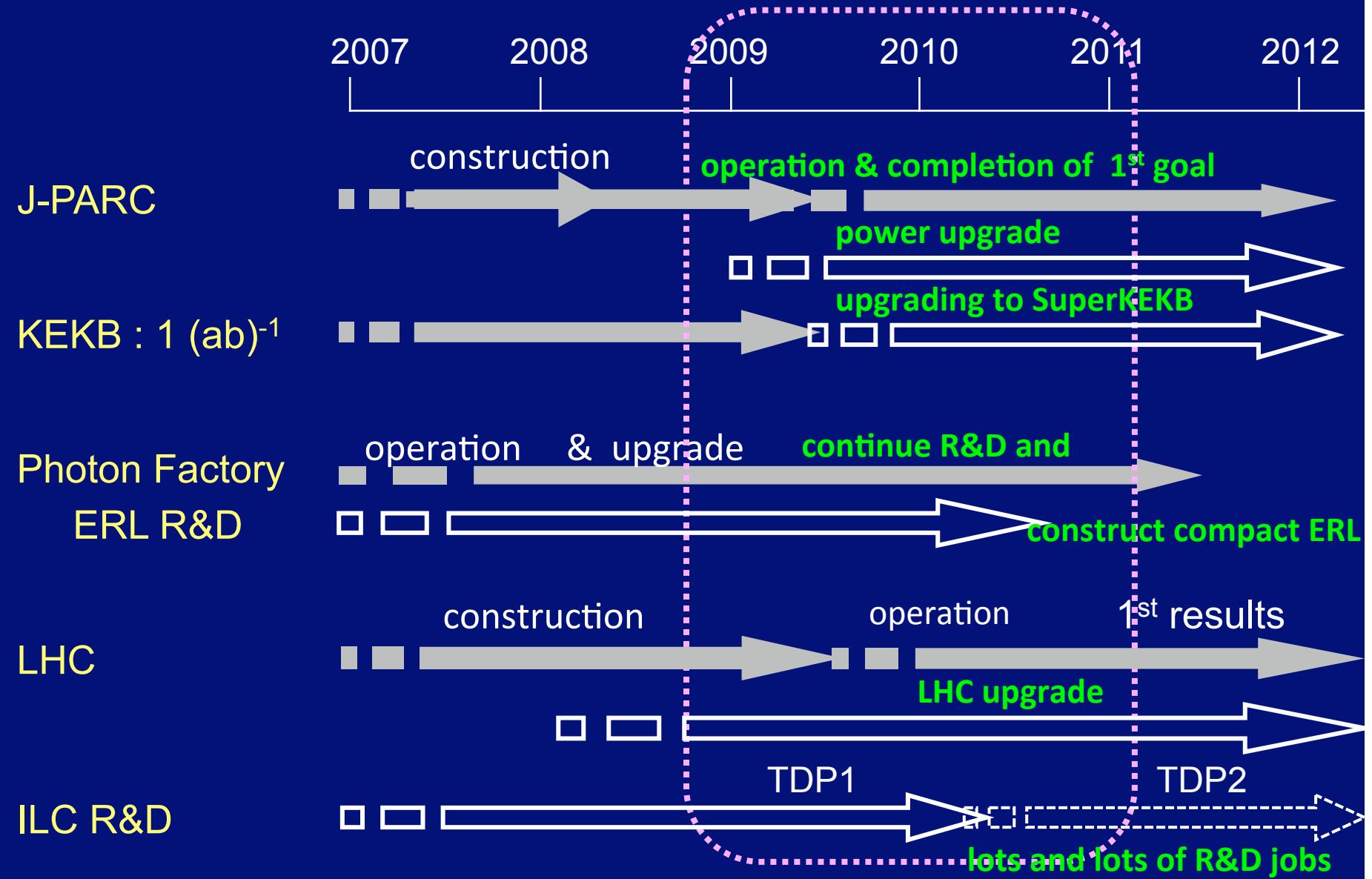


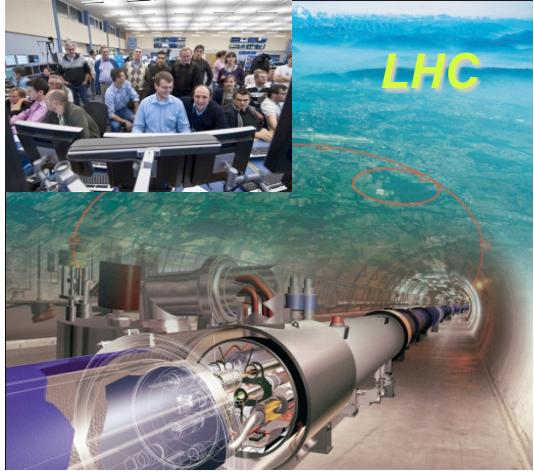
*Feb. 07, 2011*

# KEKB Accelerator Review Committee



## Timeline of Current Projects : 2007





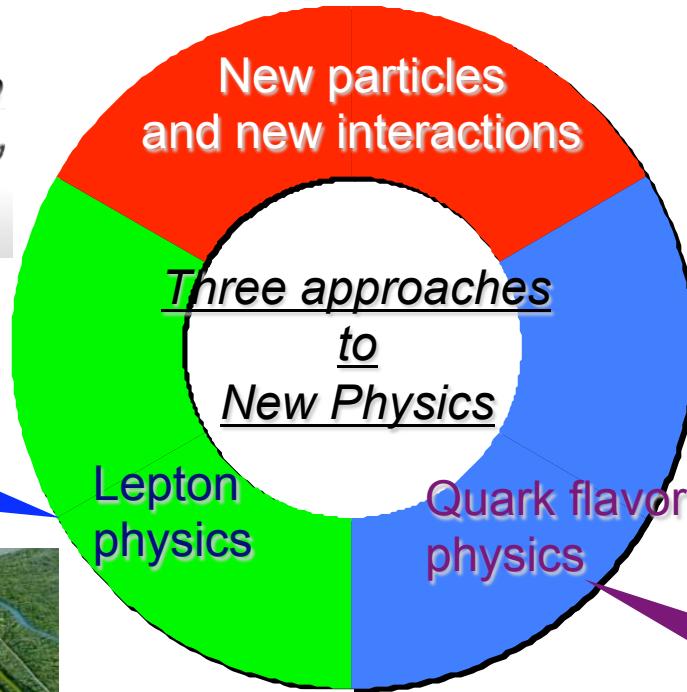
## HEP Project in the Next Decade

Energy frontier experiments  
LHC, ILC, ...

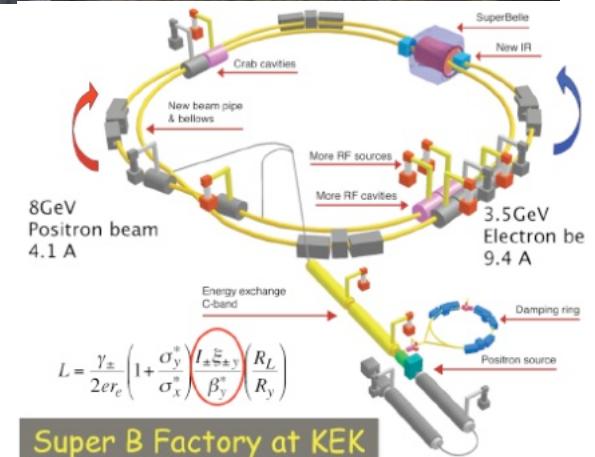
Higgs, SUSY, Dark matter,  
New understanding of space-time...



$\nu$  exp.,  $\mu$  LFV,  $\tau$  LFV,  
 $g_\mu - 2$ , ...



Neutrino mixing/masses,  
Lepton number non-  
conservation...

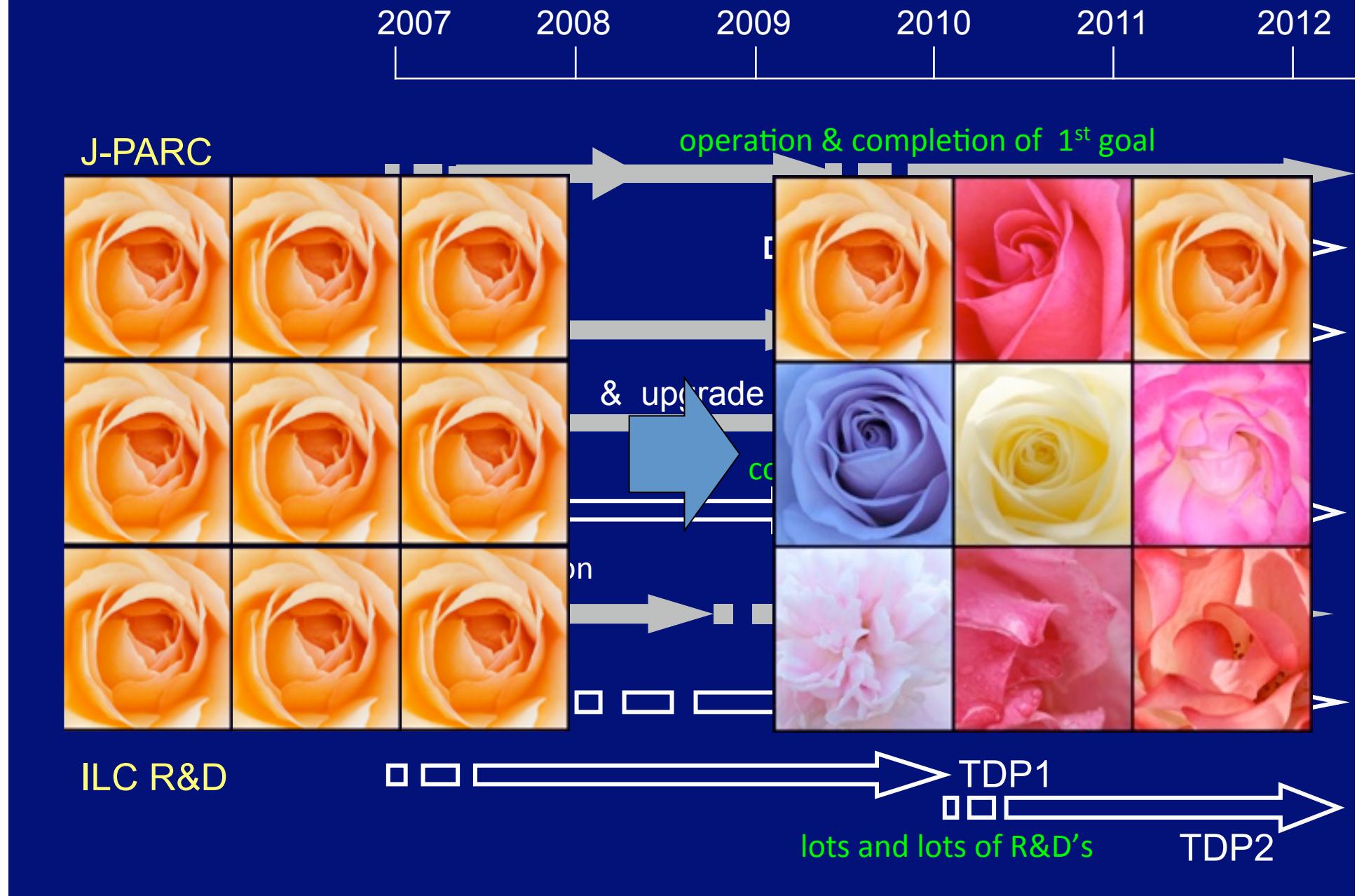


Super B Factory at KEK

*SuperKEKB,  
K exp., etc.*

CP asymmetry, Baryogenesis,  
Left-right symmetry, New sources  
of flavor mixing...

## Summary of KEK Roadmap



# International Roadmap Review Committee

in March 2008



Y. K. Kim, R. Heuer, J. Ellis , J. Rosner , M. Tigner , S. Ozaki,  
A. Hutton, J. Zinn-Justin, J. White, M. Gibson, K. Hodgeson,  
H. Takeda, T. Kishimoto, M. Sakata, T. Yamanaka

Quest for  
Birth-Evolution  
of Universe

Quest for Unifying  
Matter and Force

International Linear  
Collider (ILC)

*Lepton CP Asymmetry*

Power-Upgrade



**Scientific Activities  
Technology Innovations  
Talented Human Resources**

*Beyond Standard Physics*

SuperKEKB



Upgrade

LHC



*Lepton*  
Quest for Neutrinos

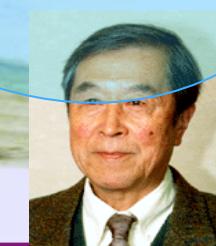
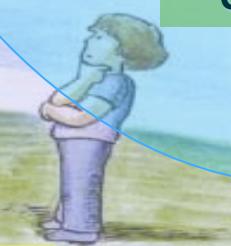


[Origin of Matter]



Quest for 6 Quarks

Quark



[Origin of Force]

Higgs Particle [Origin of Mass]





**Cost estimation :**  
for 5 years

- first class : 720 M\$

nightmare



cost

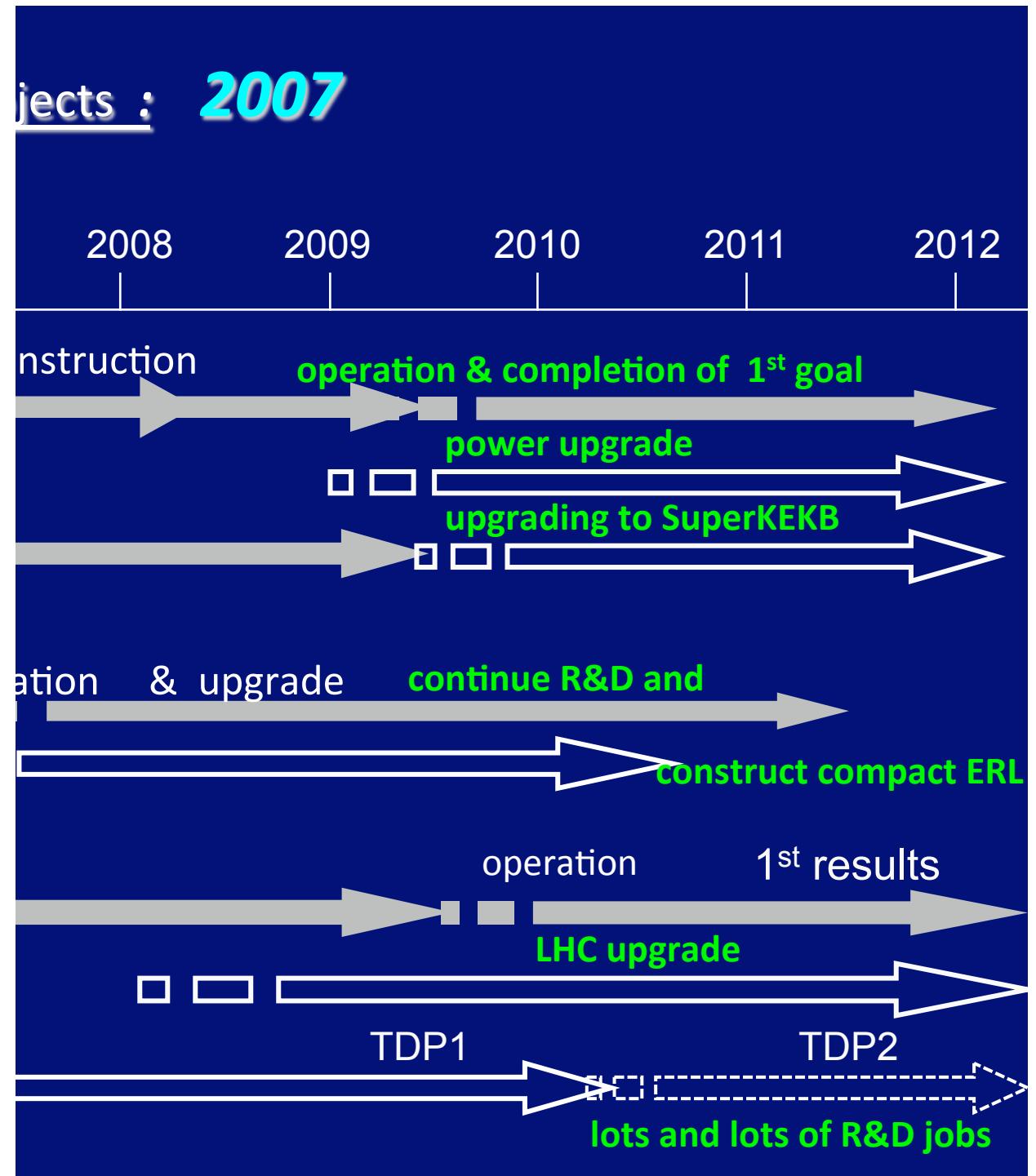
- business class : 530 M\$

sleepless-nights

- economy class : 370 M\$



personnel and operation  
(PF & J-PARC) : not included



# KEKB to SuperKEKB : current status

- KEKB operation finished at 9:00 am June 30, 2010



- SuperKEKB budget is partially approved

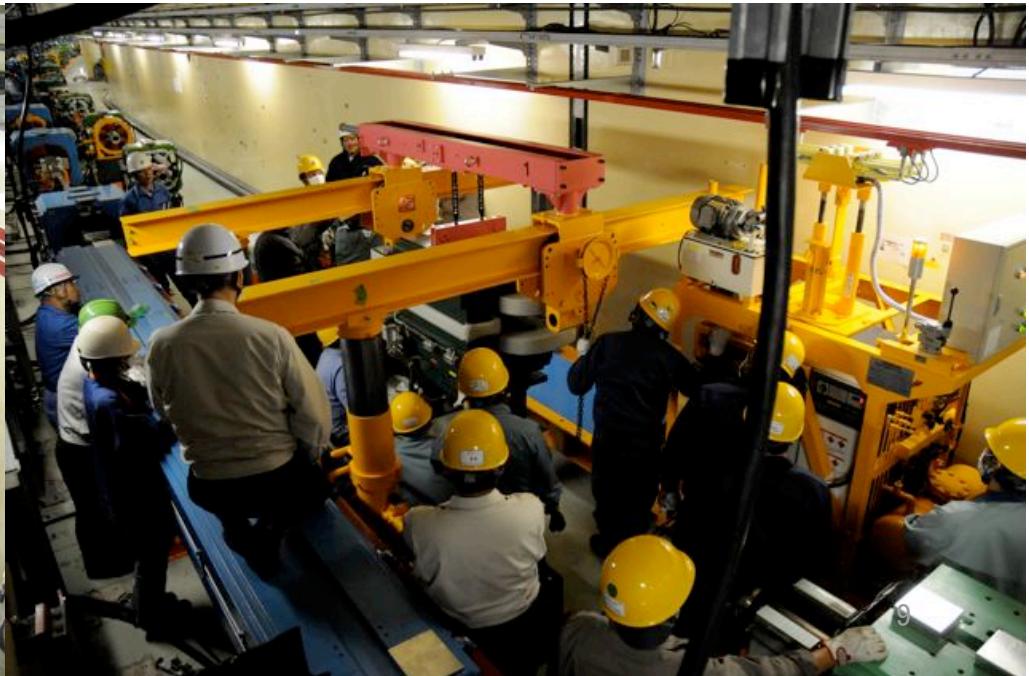
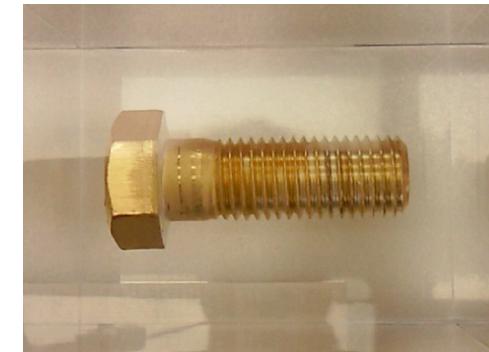
- Damping ring : 580M yen (~5.8M\$) (FY2010)
- Special budget "Very Advanced Research Support Program" 1B yen (~100M\$) (FY2010-2012)

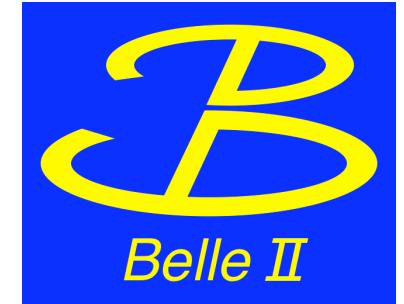
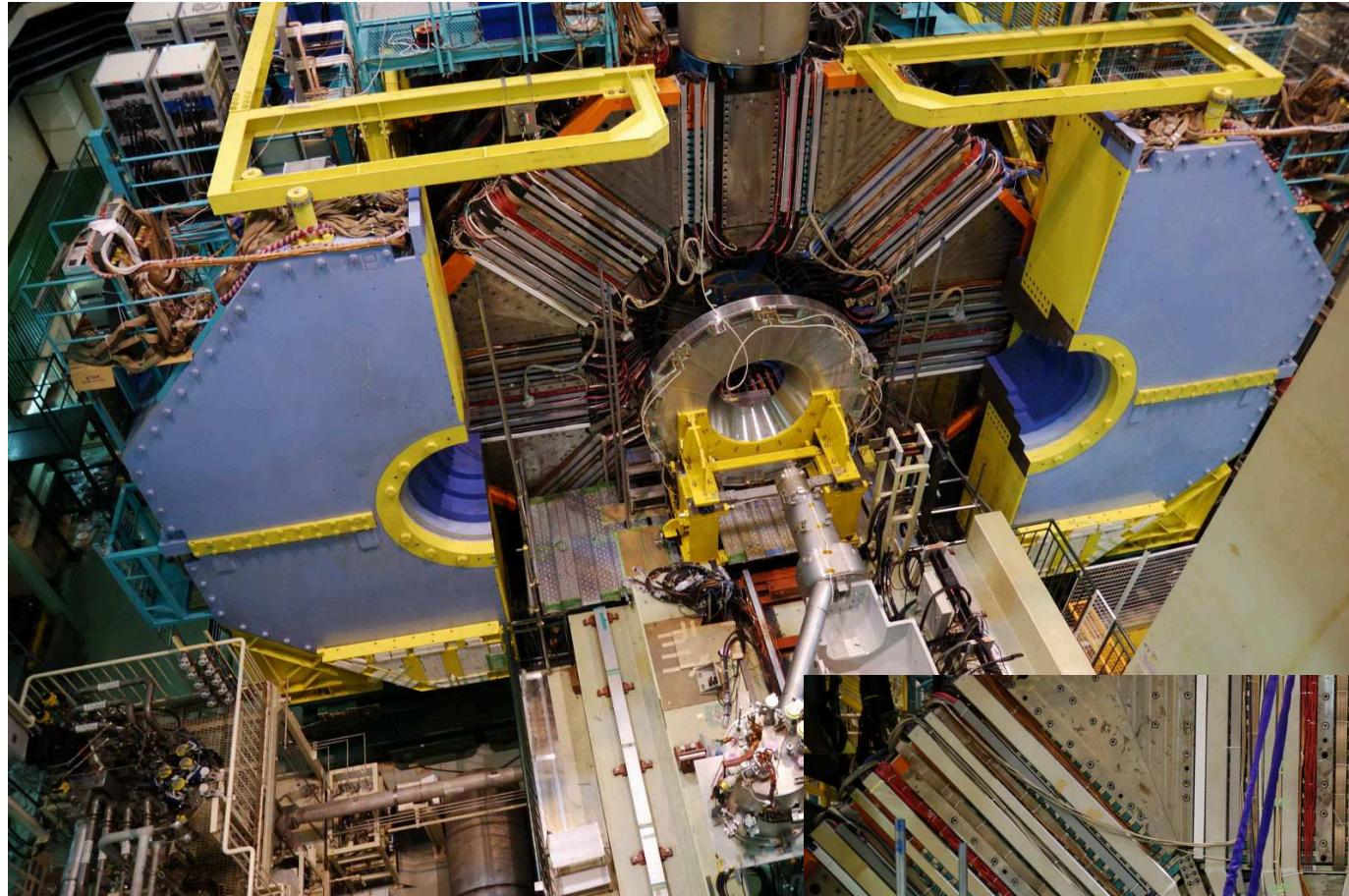
→ ***Start construction (FY2010-2013)***

J.P.Delahaye/CERN :  
**ICHEP2010**



## KEKB being disassembled





Belle is also being  
disassembled to  
revive as Belle-II.



**My Concern**

:

**SuperKEKB Cost**

- first class : 700 M\$

nightmare



- business class : 500 M\$

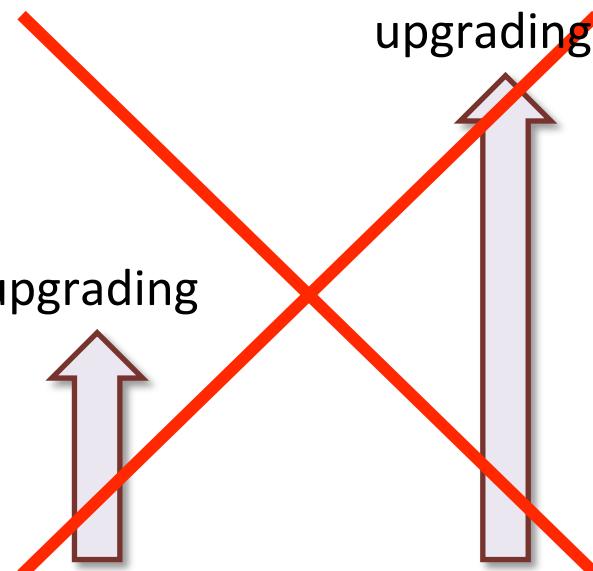
sleepless-nights

- economy class : 315 M\$



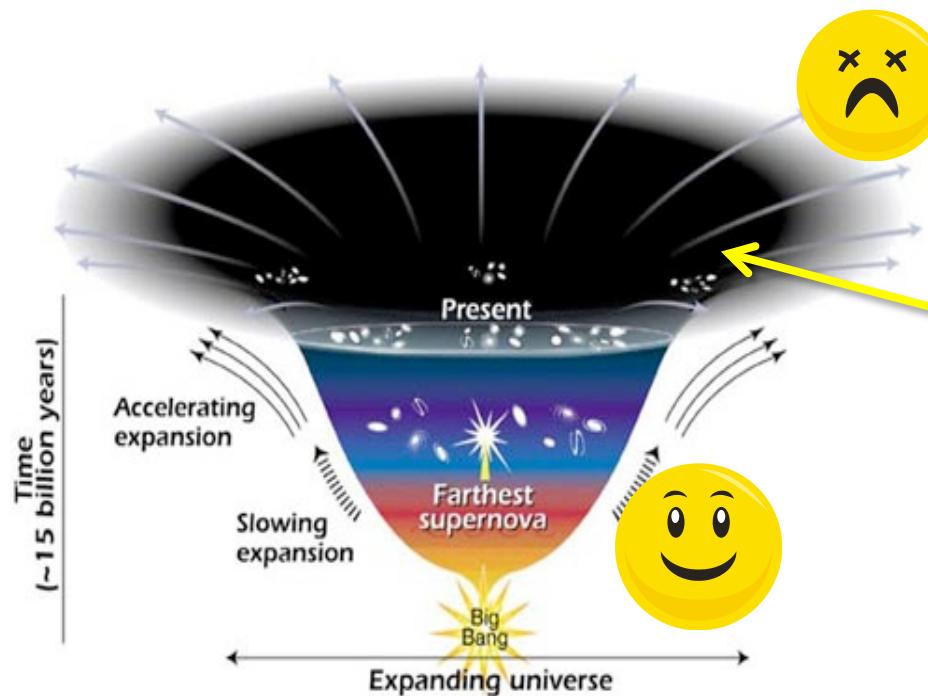
*Cost Upgrade (Inflation)  
by Redesigning,  
Redesigning,*

*Absolute Ban . . .*



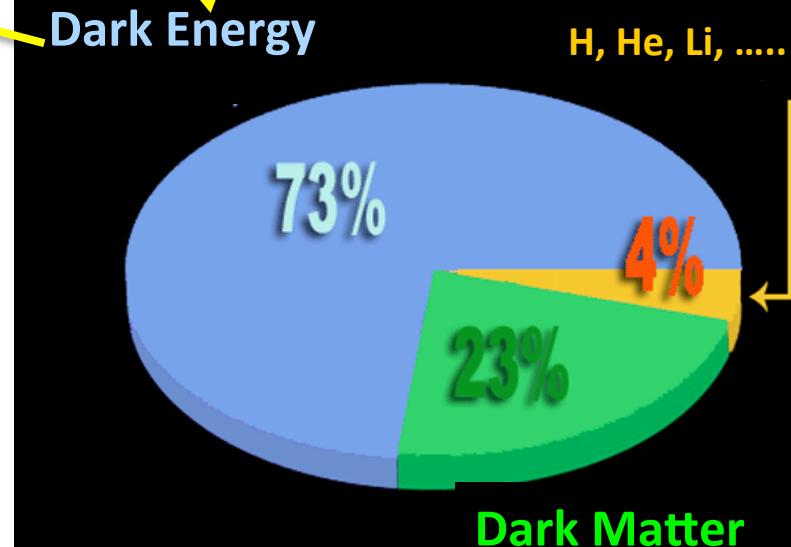
*Hope : Review Committee :*

*Obviate Dark Energy  
from SuperKEKB Cost Evaluation*



**Source of Reinflation**

**Dark Energy**





Thank you again  
for your contributions.