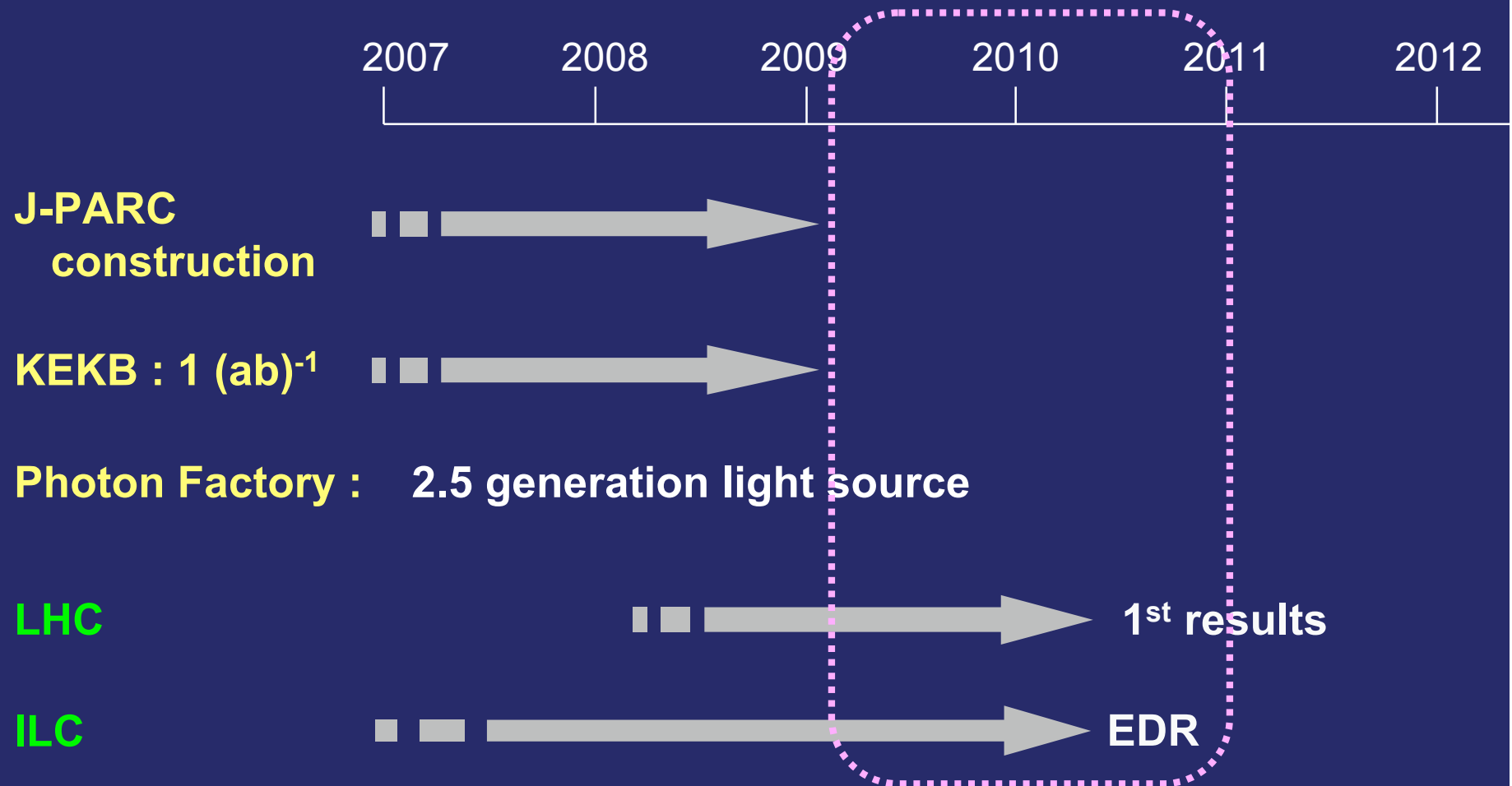


# Roadmap of KEK Future Projects

Atsuto Suzuki



# Boundary Conditions for Roadmap



JAHEP (Japan Association of High Energy Physicists) proposed the master plan for future high energy physics projects in 2006.

2006 2008 2010 2012 2014 2016 2018 2020

J-PARC  $\nu, n$  construction

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J-PARC  $\nu, K$  experiment

J-PARC  $n, \mu$  experiment

Budget transfer

PF upgrade

PF

J-PARC R&D

upgrade

Compact ERL

Budget transfer

ERL construction experiment

KEKB

KEKB upgrade

R&D

KEKB upgrade

experiment

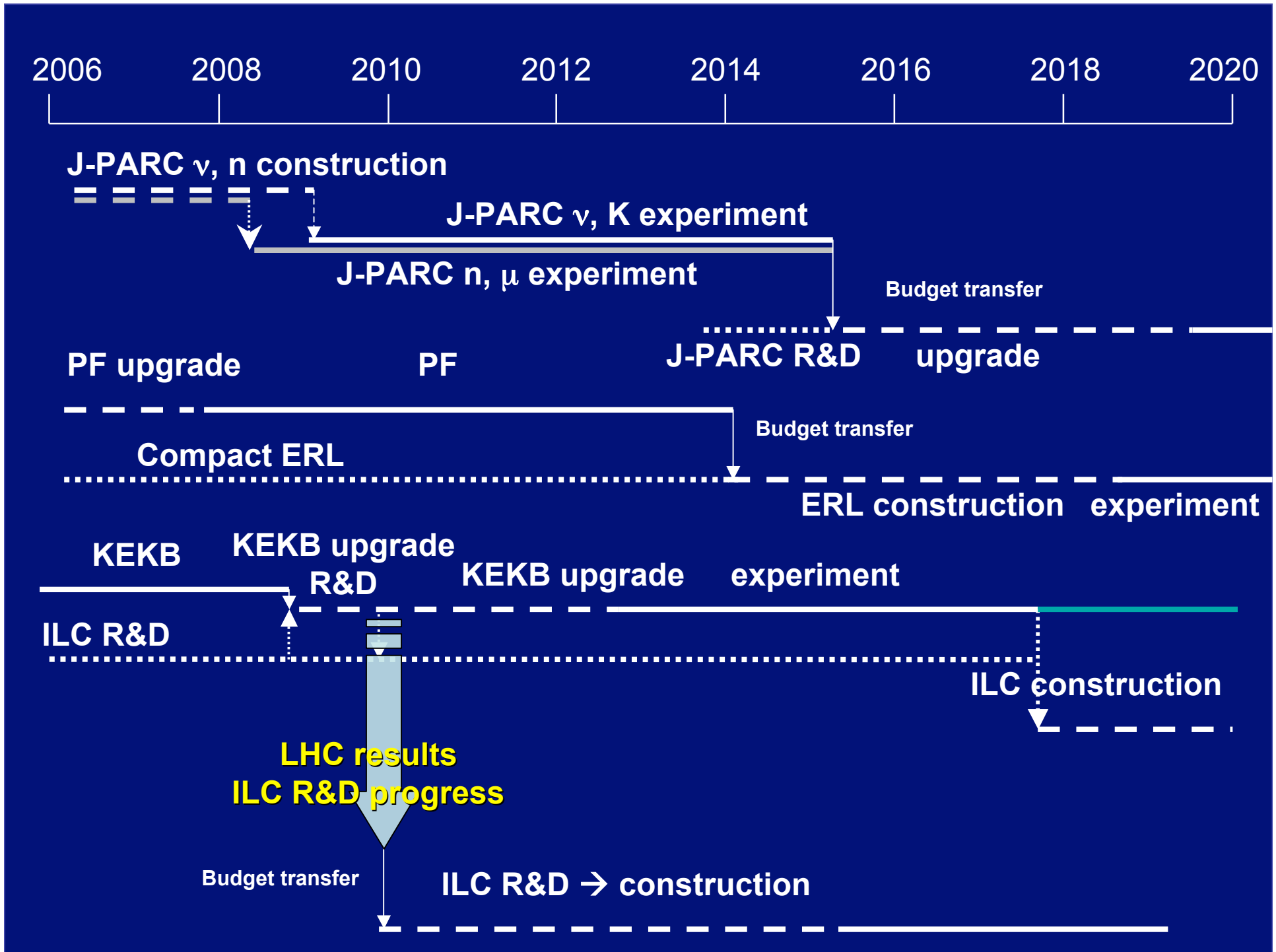
ILC R&D

ILC construction

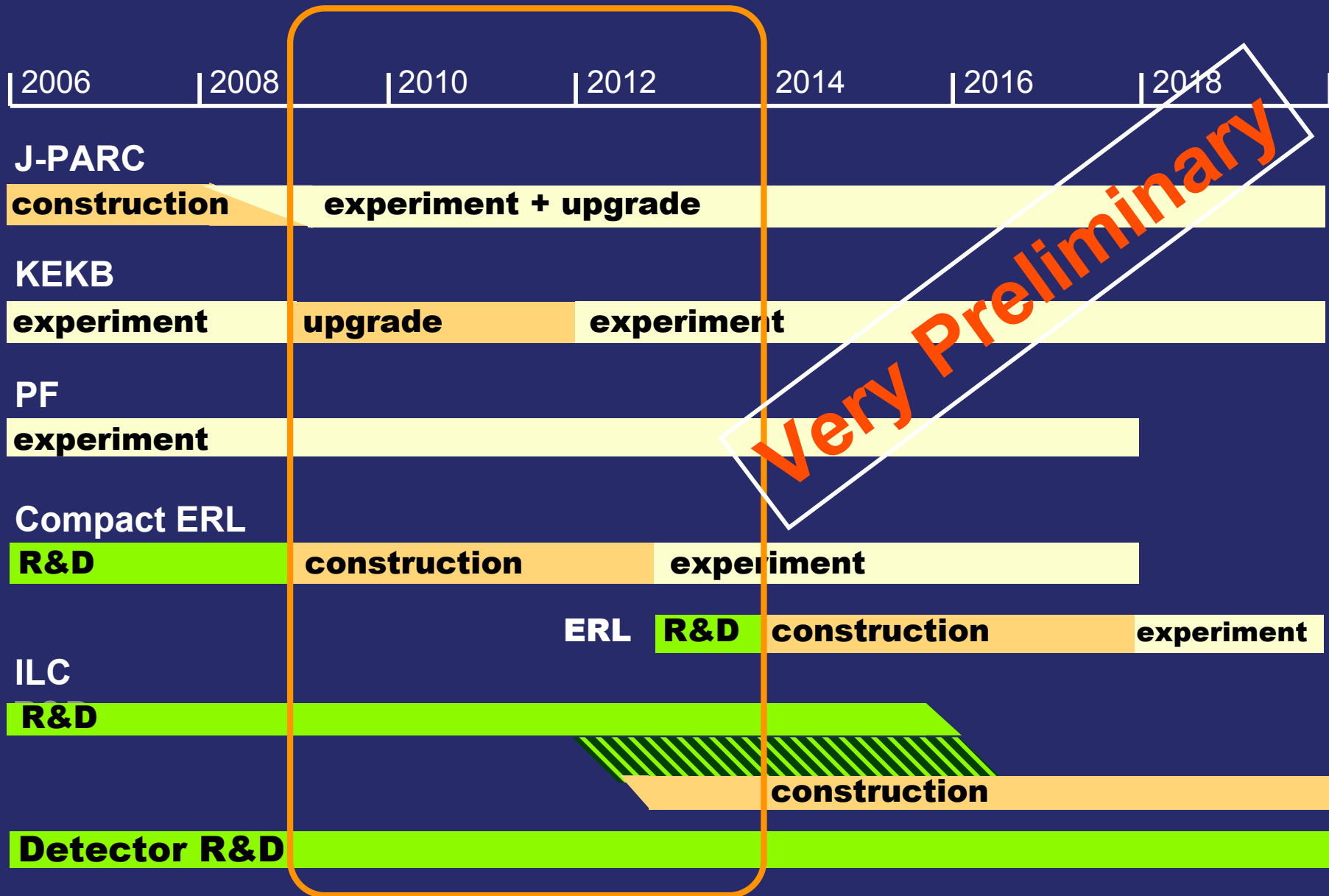
LHC results  
ILC R&D progress

Budget transfer

ILC R&D  $\rightarrow$  construction



# KEK Roadmap



# Construction / R&D Plan

KEKB	Beam pipe, Magnet, Beam transport, IR, Monitor, Control, Belle * No RF/DR, to be upgraded during operation period
c-ERL	Compact ERL (SCRF system, e source, magnet, Beam line) ERL engineering design
ILC R&D	SCRF system, Facility, Industrialization, Engineering design * 2 more RF units to be fabricated with additional fund
Neutrino Beam	MR RF system, Power supply for magnets * 1.7 MW can be achievable with linac upgrade
Detector R&D	Clean room, LSI development, 2-dim. sensor, Pixel detector
Operation	J-PARC, PF/PF-AR, Upgraded KEBB

**J-PARC: Based on the existing upgrade plan and new proposals  
"the grand design" is to be defined.**