

## Long Term Future Directions for PF

- The PF provided the Committee with a long term strategic plan to provide cutting-edge research capabilities for Japanese and worldwide science. The Committee recognizes that plan as very visionary and able to take full advantage of the outstanding talent at KEK and PF.
- With upgrades to PF, the Committee sees a productive 10-yr+ life for SR science. For future scientific opportunities, it is important to begin planning and R&D now for a next generation light source at PF. The ERL, when recognized around 2015, will complement the x-ray storage and XFEL at Spring-8 and provide a full complement of VUV, soft x-ray and hard x-ray scientific opportunities for Japanese users with leading edge capabilities in brightness and time resolution.
- The ERL plan – with sufficient R&D effort, followed by a prototype should lead to a very successful implementation of a hard x-ray ERL. The synergy with JAEA and accelerator developments at KEK offers a significant strategic advantage.
- The plan to convert the prototype into a VUV ERL user facility that complements the hard x-ray ERL is a good, cost effective, strategy that offers risk mitigation in the event that the hard x-ray ERL has difficulties.