
Payload Planning System (PPS)

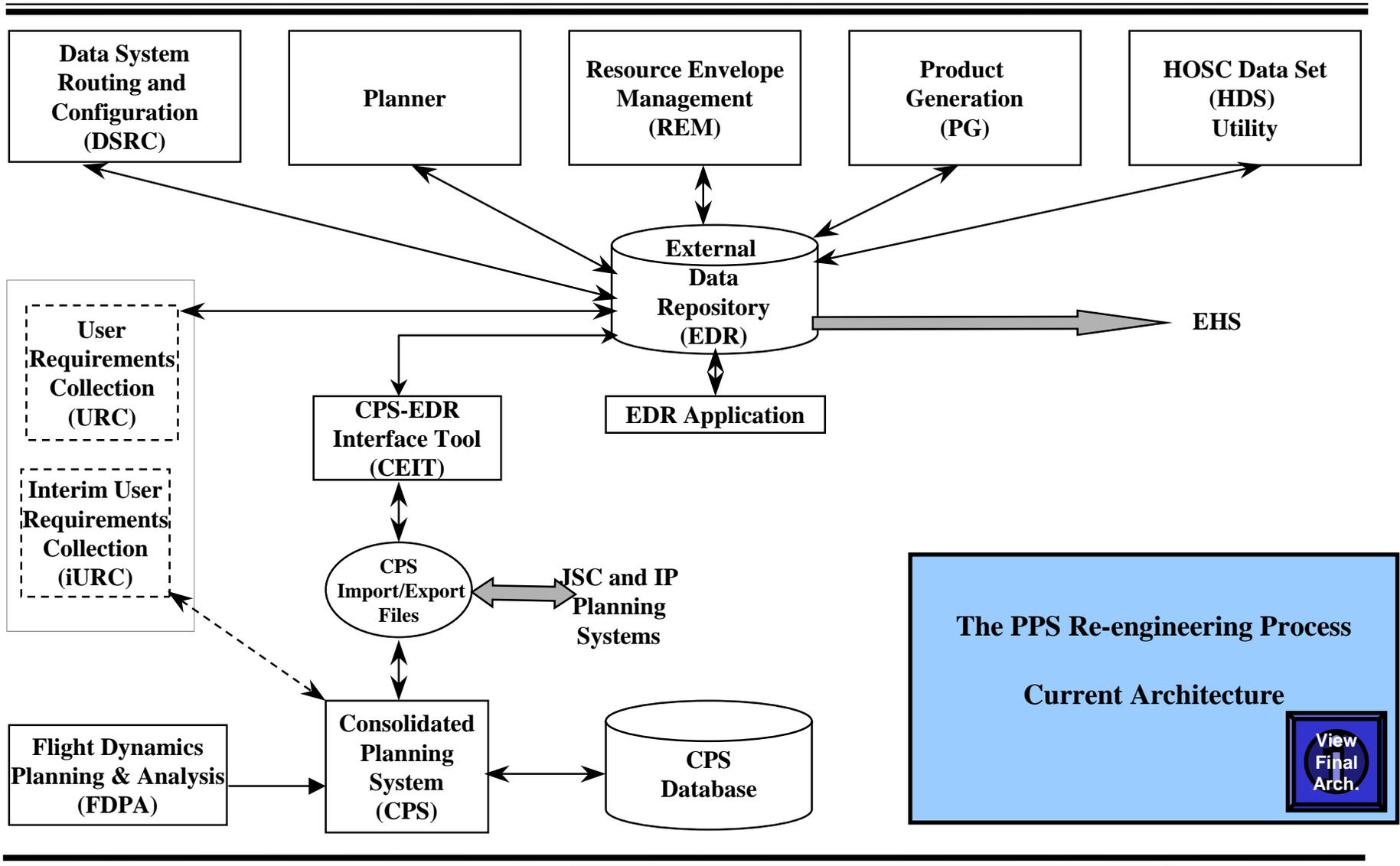
System Re-engineering Overview

Re-engineering Overview

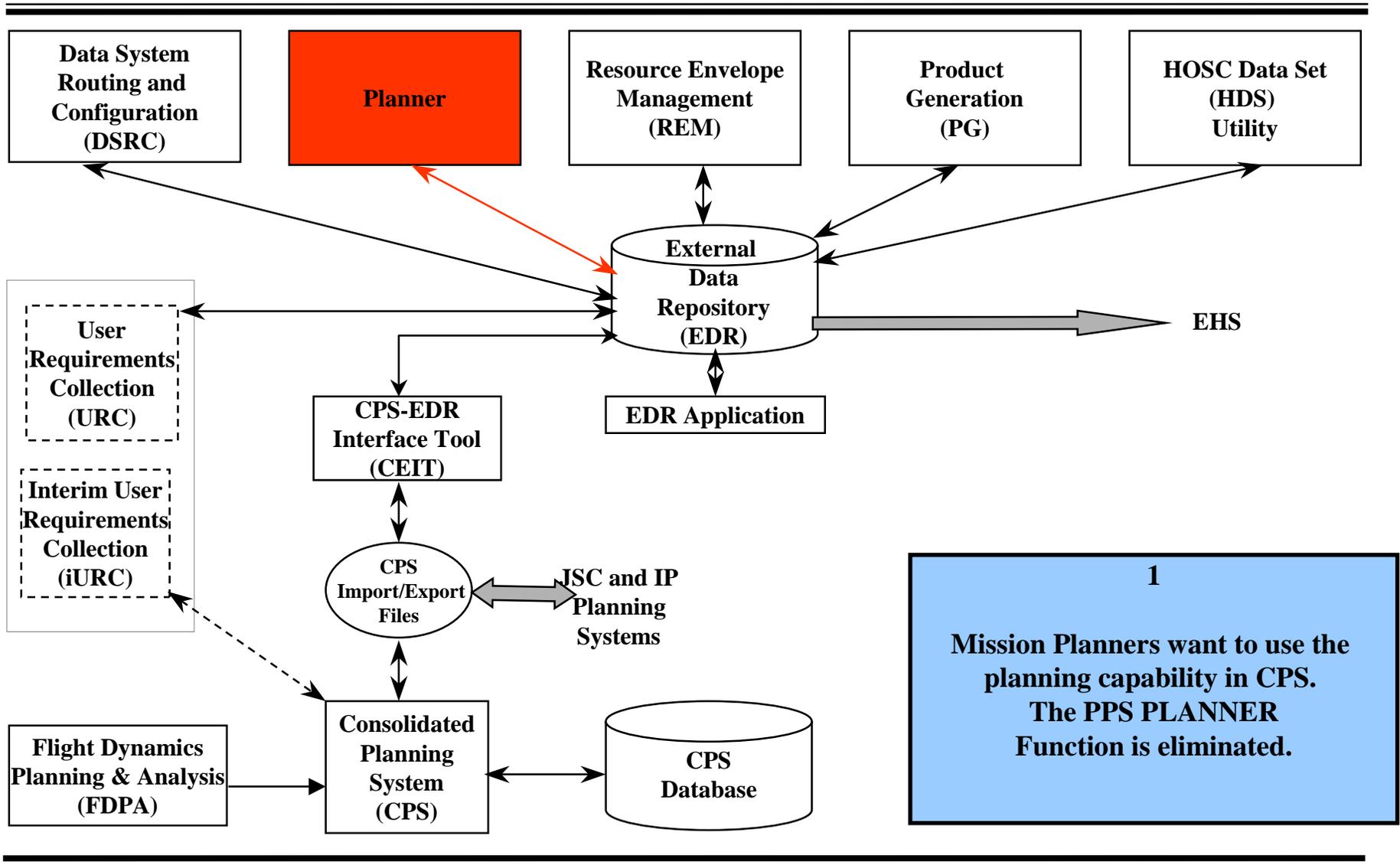
- The Payload Planning System (PPS) is a set of software tools used to automate the planning, scheduling, and integration of payload operations during pre-increment planning, weekly planning, and real-time execution.
- PPS went through several years of development and is currently deployed as a production system in O&M mode.
- System components are:
 - distributed across a variety of platforms
 - written in a variety of languages
 - were developed by multiple organizations
 - are a mix of old and new technology
- Due to numerous reasons (evolving requirements, user needs and satisfaction, system complexity, component rejection, maintainability, maintenance costs, and architecture modernization desires) the PPS system is undergoing a re-engineering effort.
- This presentation illustrates the planned evolution of the current PPS system to its resultant, re-engineered equivalent.

PPS Re-engineering Functional Illustration

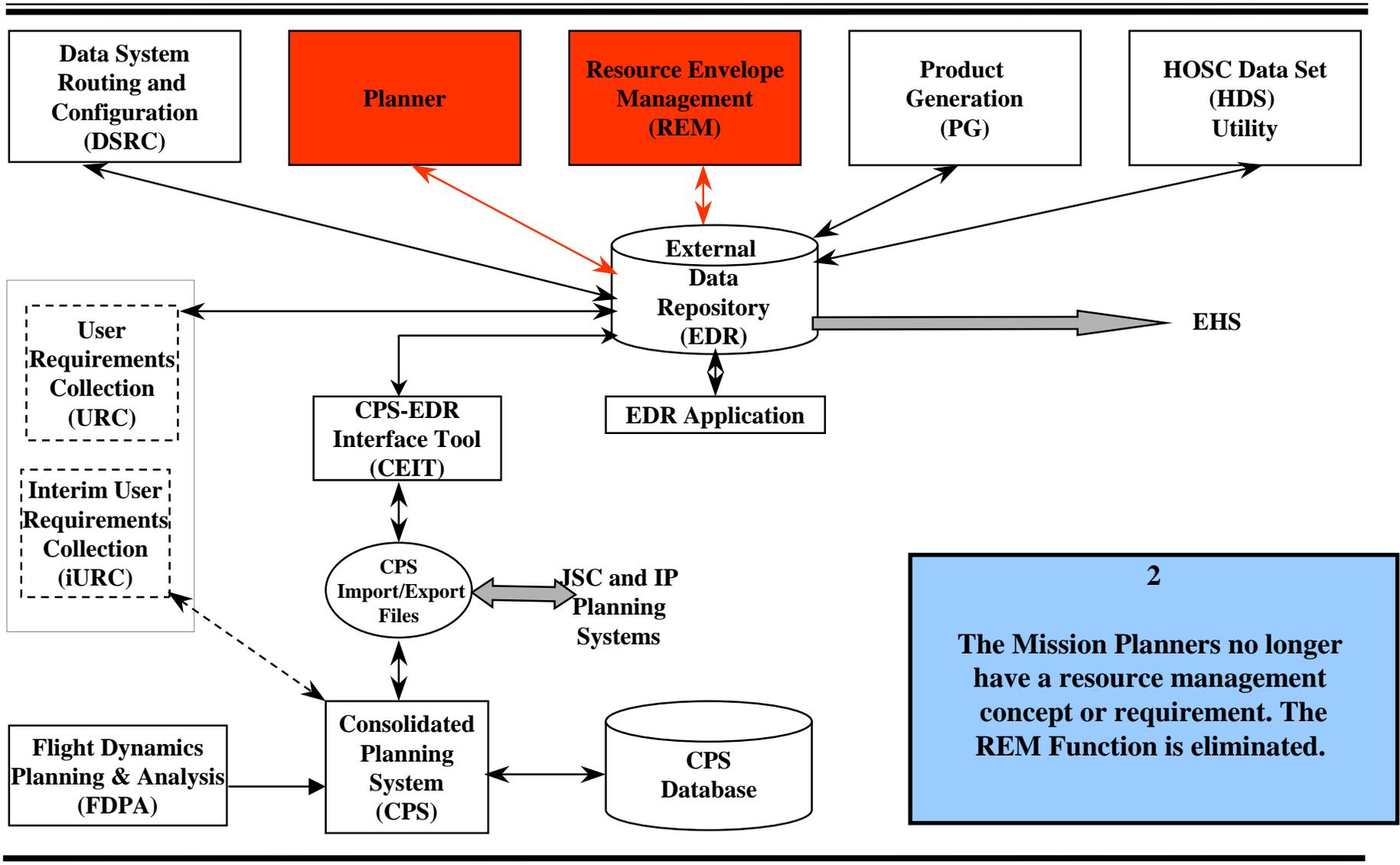
PPS Architecture Re-engineering Process



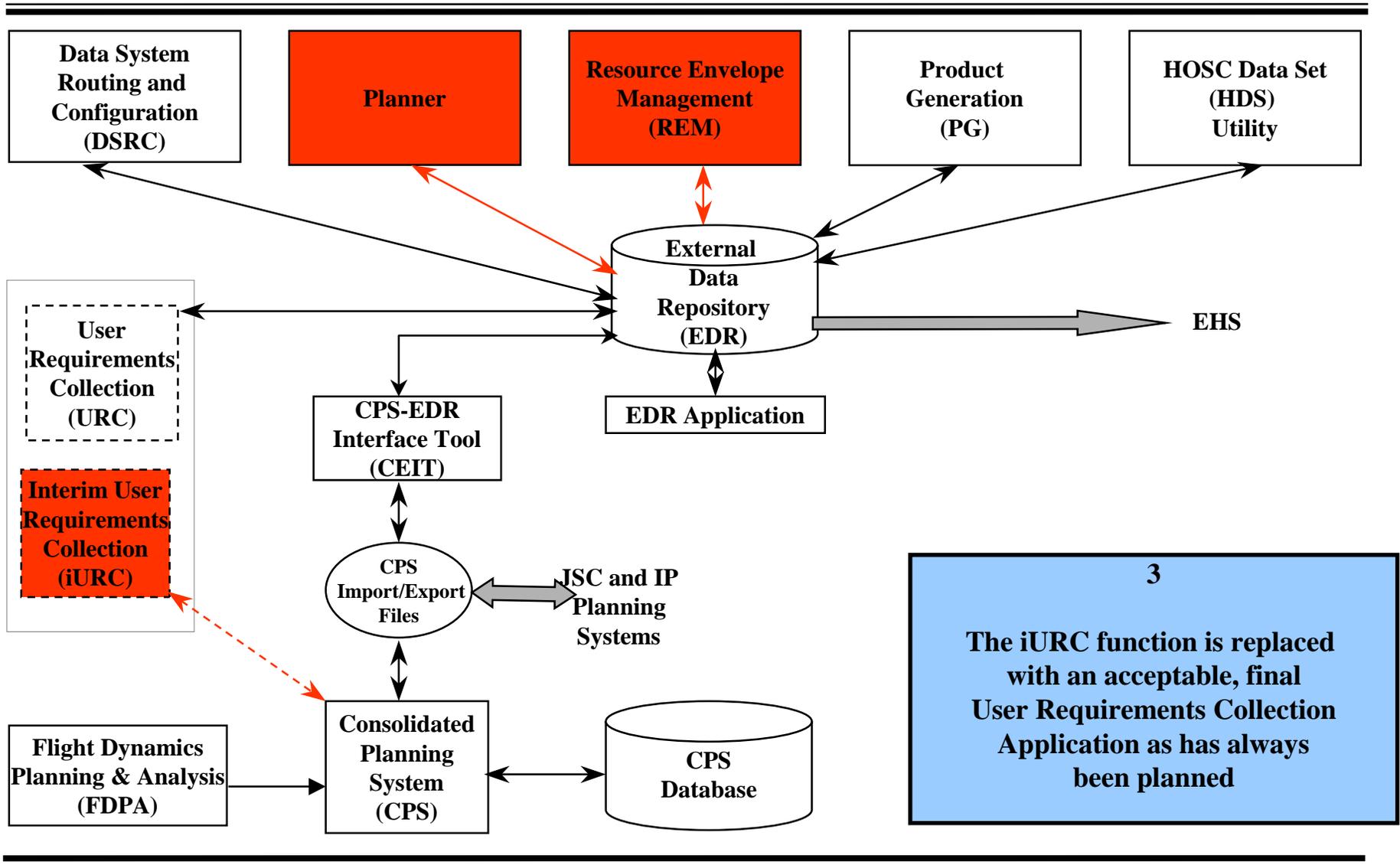
PPS Architecture Re-engineering Process



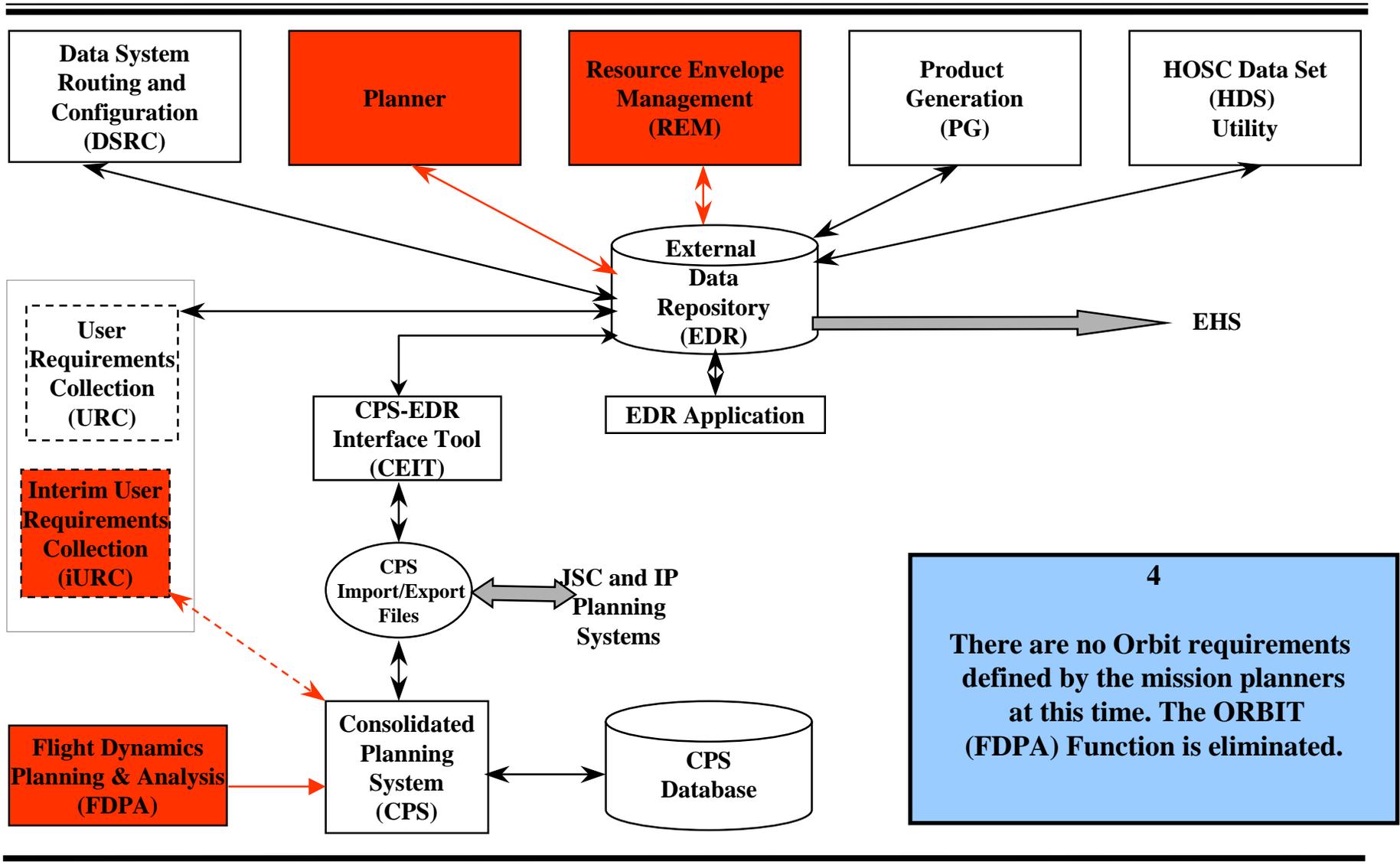
PPS Architecture Re-engineering Process



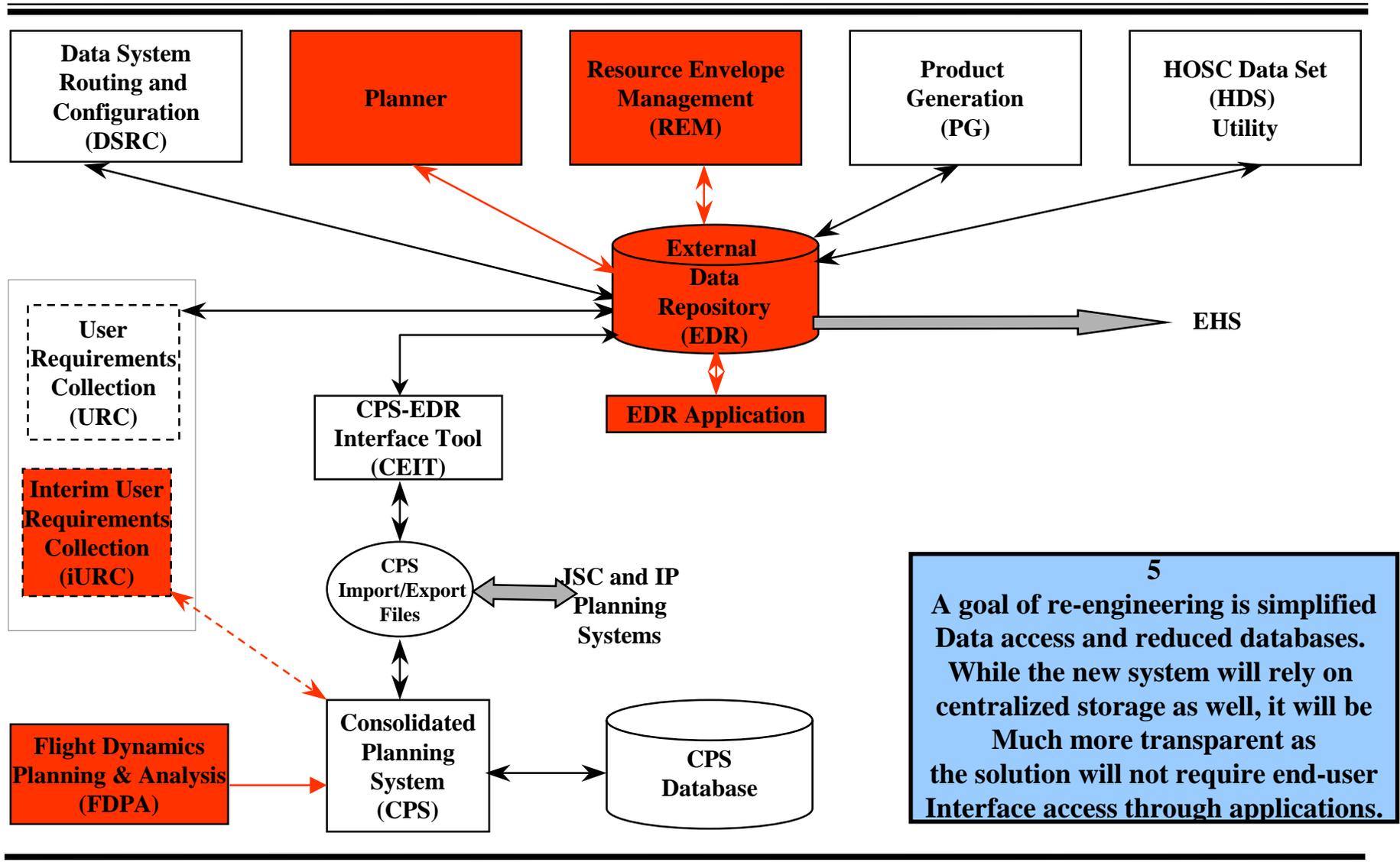
PPS Architecture Re-engineering Process



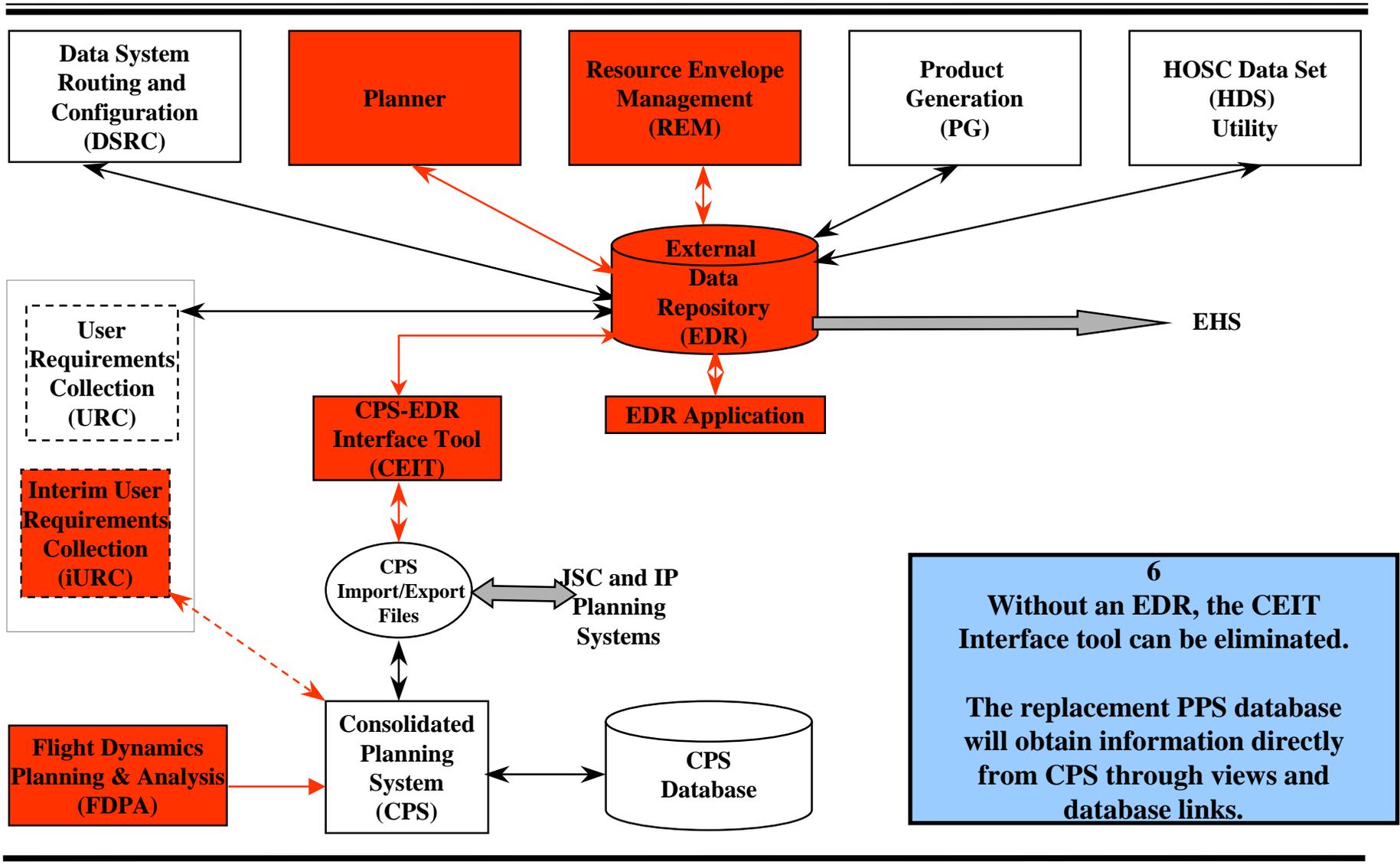
PPS Architecture Re-engineering Process



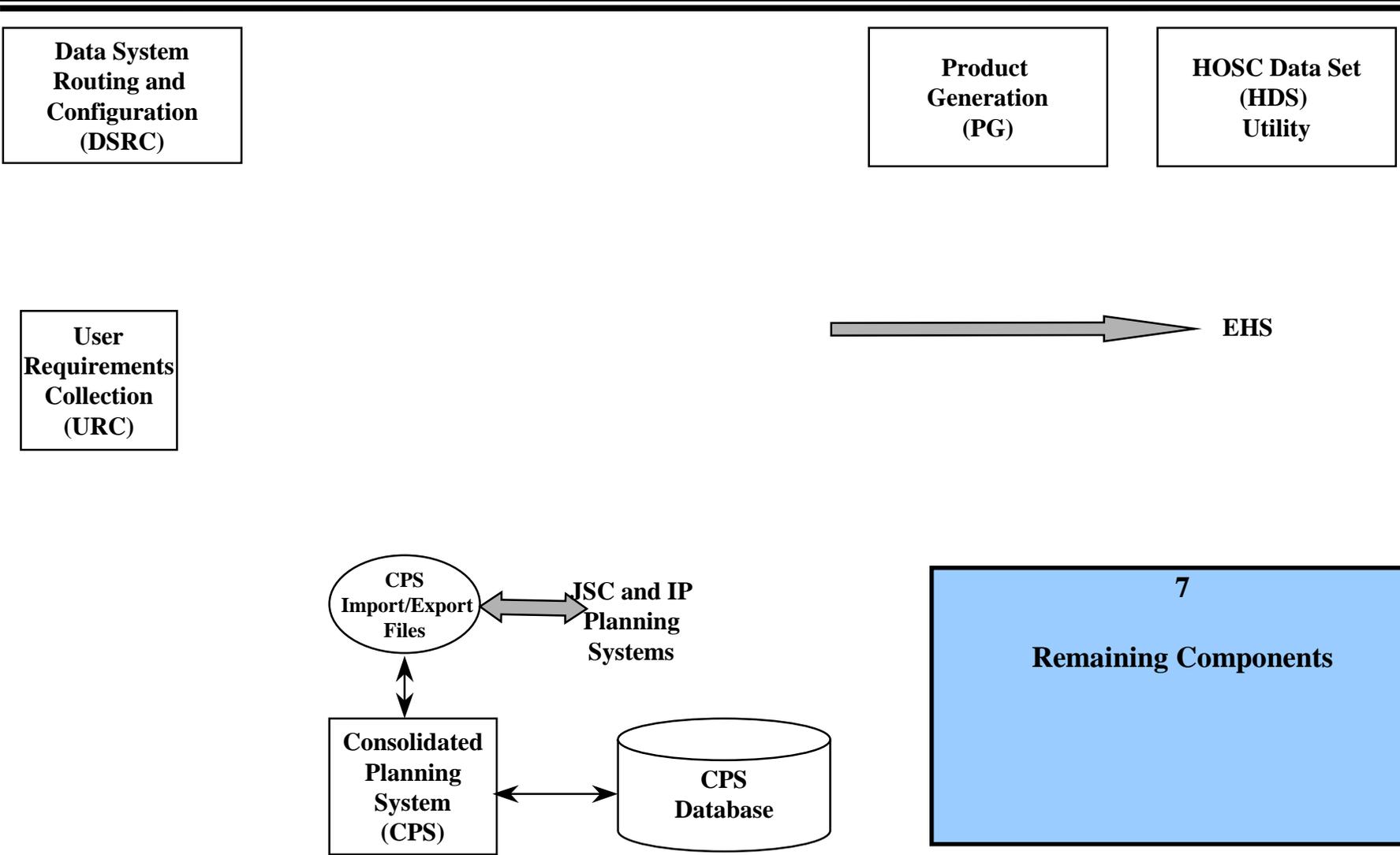
PPS Architecture Re-engineering Process



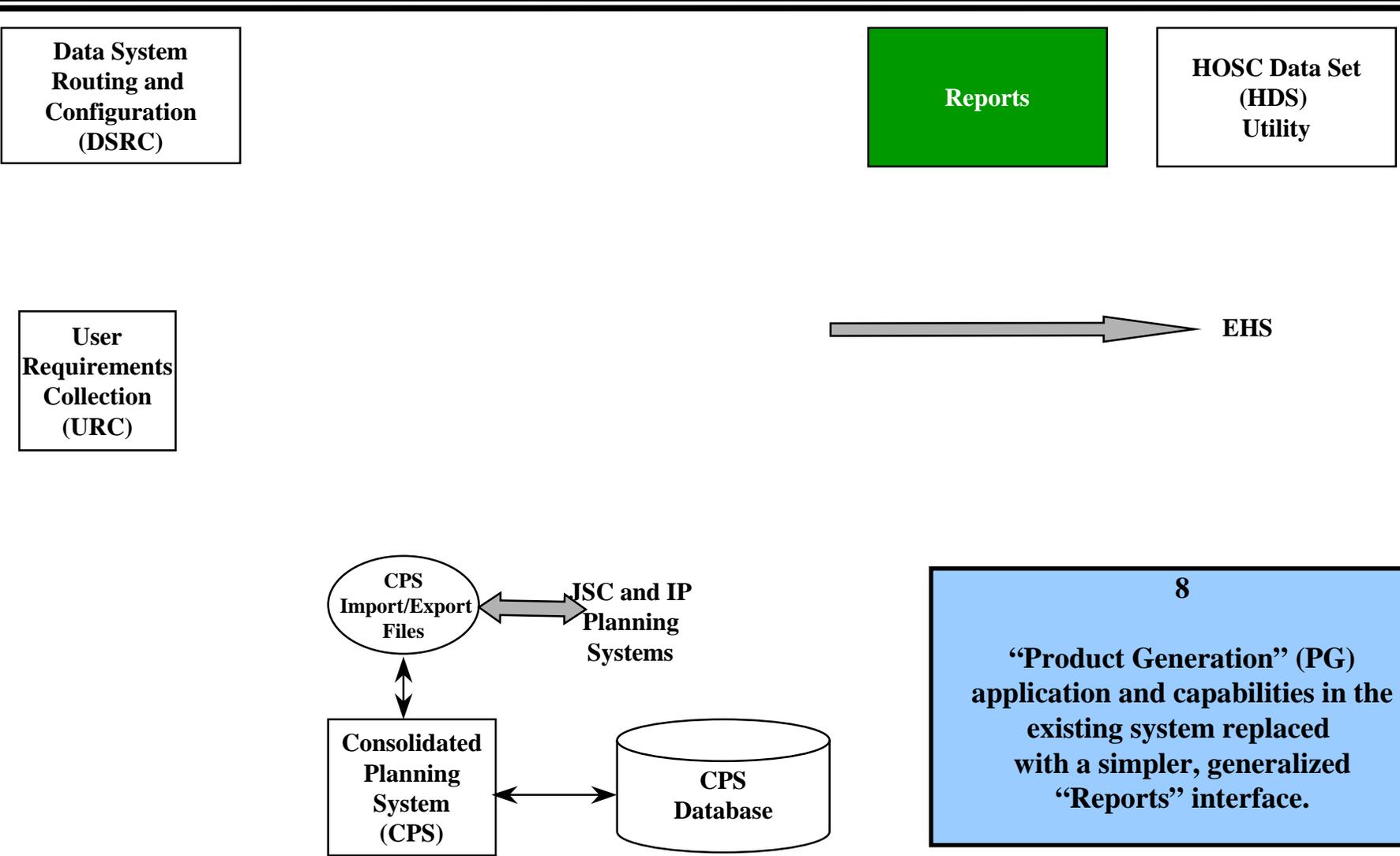
PPS Architecture Re-engineering Process



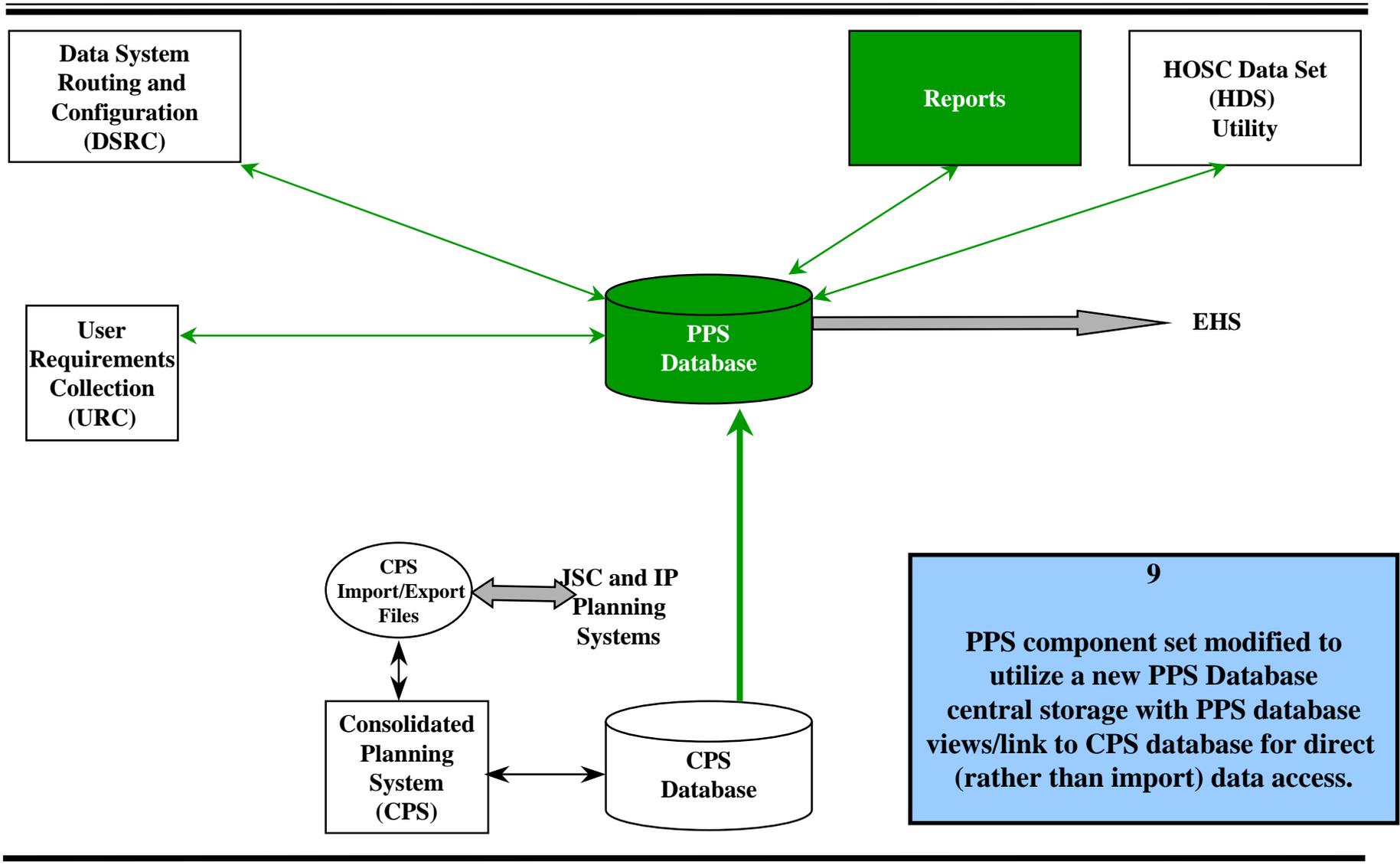
PPS Architecture Re-engineering Process



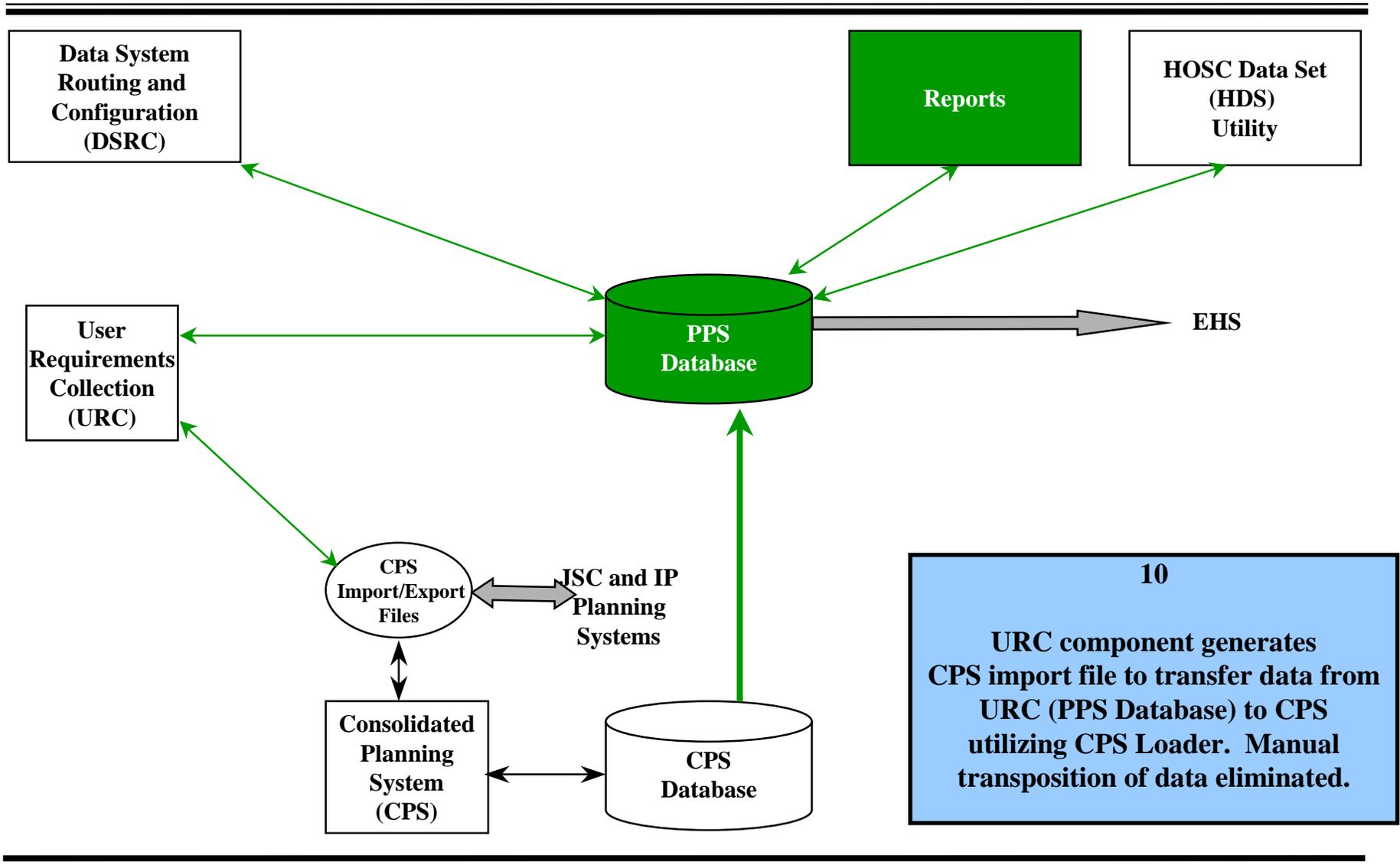
PPS Architecture Re-engineering Process



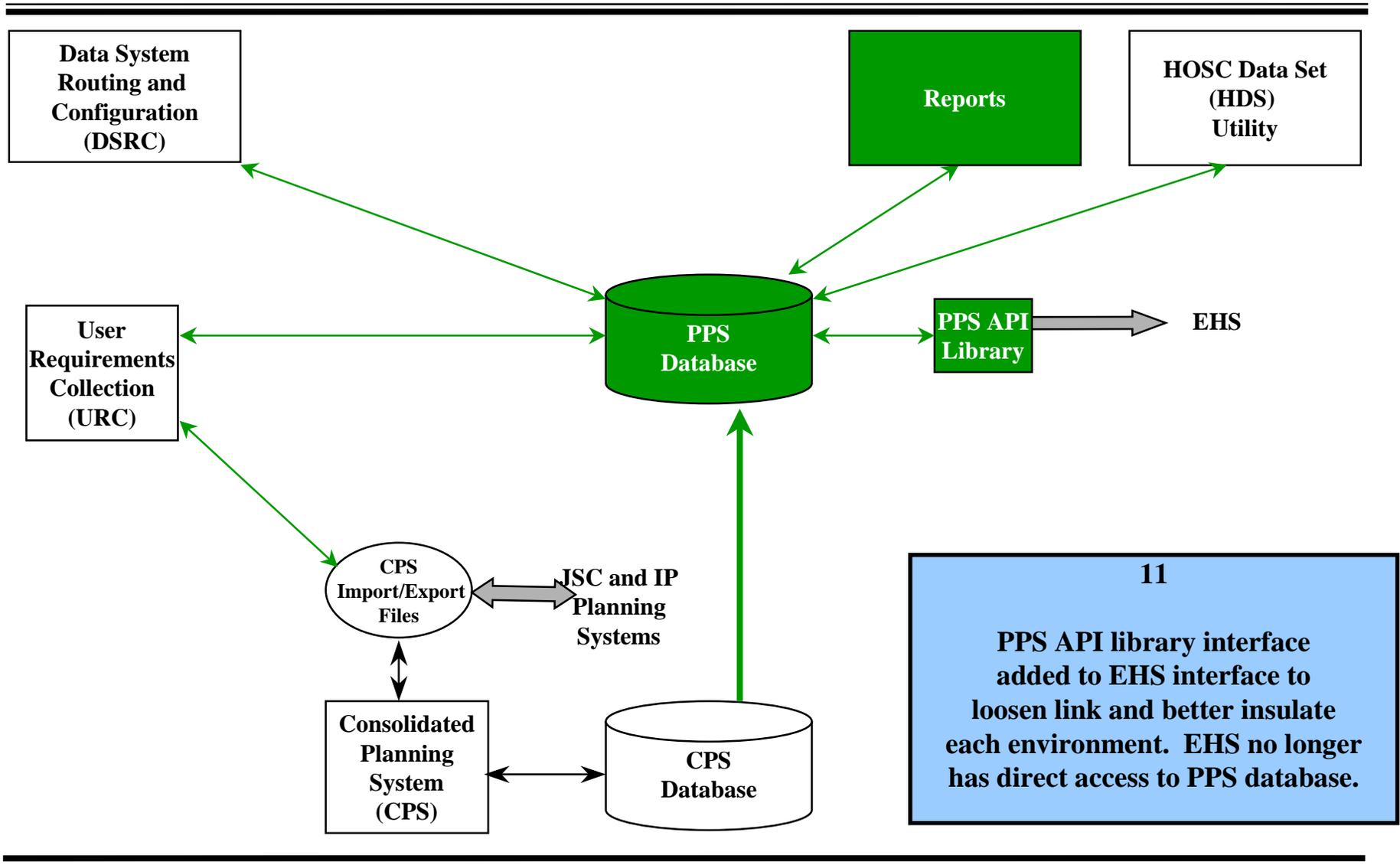
PPS Architecture Re-engineering Process



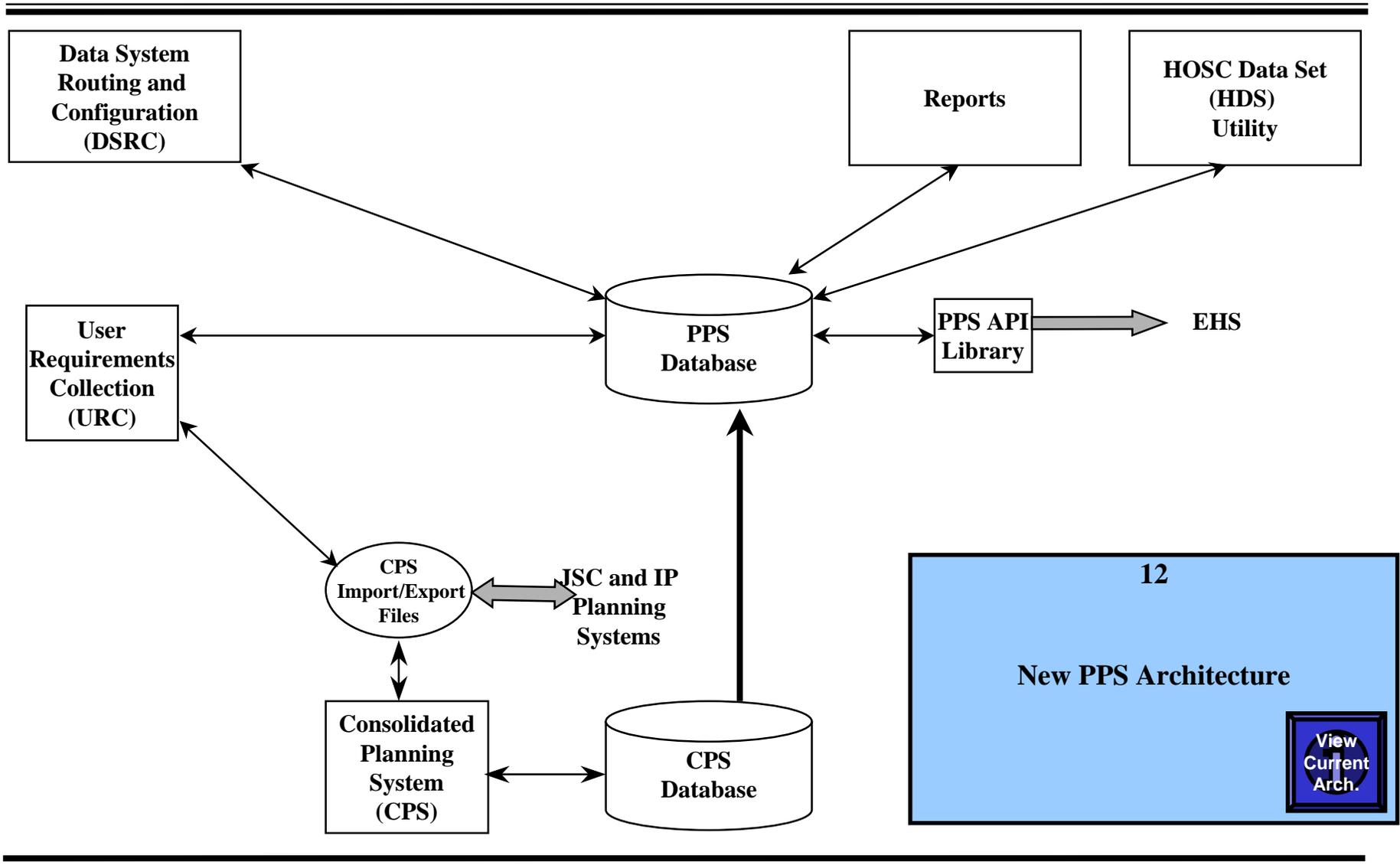
PPS Architecture Re-engineering Process



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PPS Architecture Re-engineering Process

- Other significant improvements in the re-engineered system that are not captured by the functional diagram:
 - Integrated, launchpad user access to PPS applications. Telnets, manual X setup, etc. have been eliminated.
 - Integrated Planning File Transfer application facilitates exchange of planning data with other planning facilities. Requirements to telnet and then FTP files between servers have been alleviated.
 - Single User Login to PPS systems (and all HOSC systems).
 - Improved configuration and administration.
 - Modernization of some platforms and programming languages.