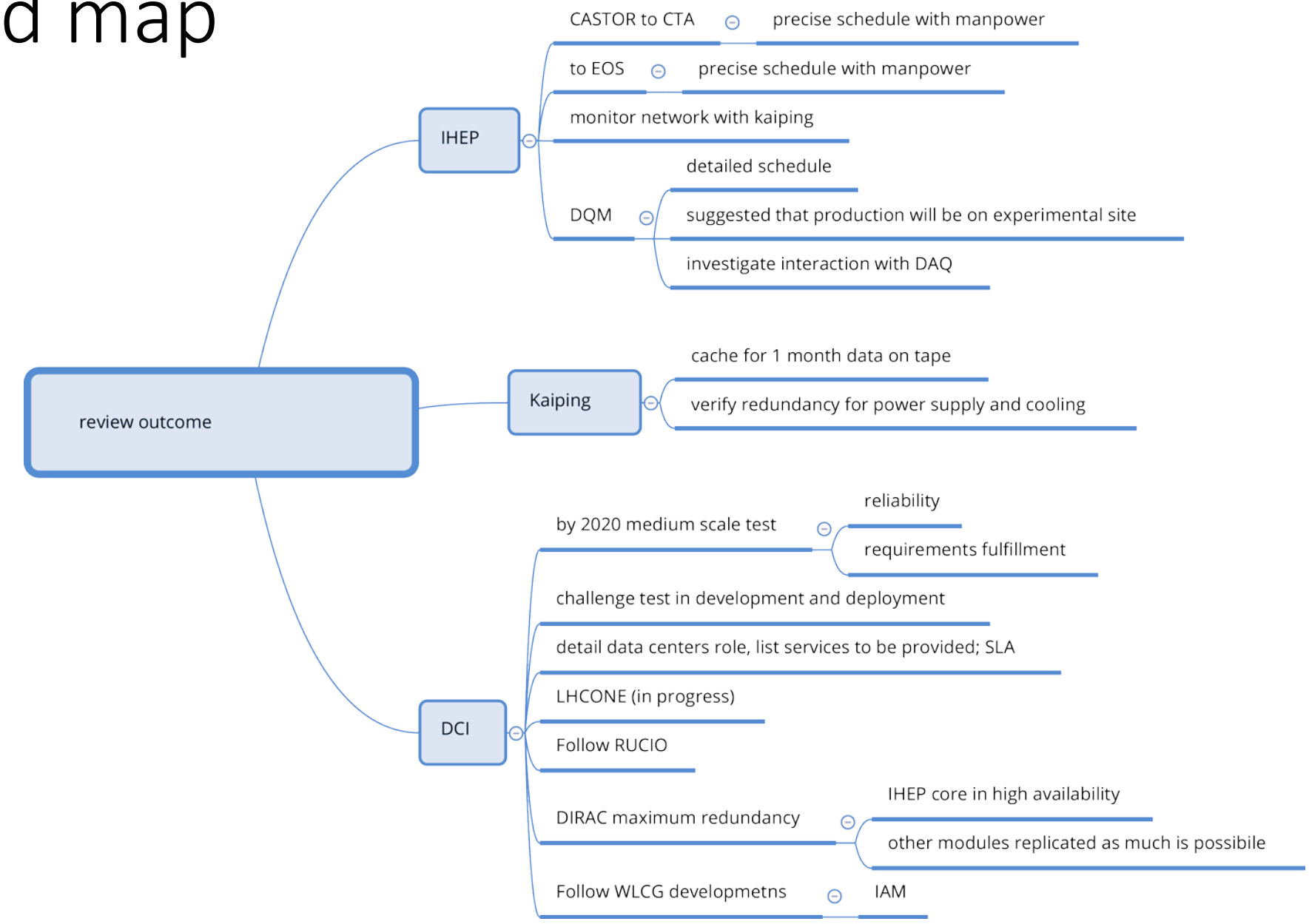
PDR recommendations

Mind map


review outcome
IHEP
CASTOR to CTA
precise schedule with manpower
to EOS
precise schedule with manpower
monitor network with kaiping
detailed schedule
DQM
suggested that production will be on experimental site
investigate interaction with DAQ
Kaiping
cache for 1 month data on tape
verify redundancy for power supply and cooling
DCI
by 2020 medium scale test
reliability
requirements fulfillment
challenge test in development and deployment
detail data centers role, list services to be provided; SLA
LHCONE (in progress)
Follow RUCIO
DIRAC maximum redundancy
IHEP core in high availability
other modules replicated as much is possibile
Follow WLCG developmetns
IAM

DCI

- The Committee recommends IHEP data center, in collaboration with the JUNO online group, during the year 2020, to test at medium scale, the reliability of the system and its ability to fulfill the requirement of the JUNO Computing Model. It is recommended also to perform challenge tests during development and deployment period
- The Committee recommends to detail the roles of the different data centers, including the list of the services to be provided. Also the SLA of these services should be defined. (Tier0 and the Tier1 are supposed to act as custodial sites for the raw data)
- The Committee recommends to make efforts to ensure the coherent development of the sub-systems and their proper integration.
- The Committee recommends to take formal steps to join LHCONE network.
- The Committee recommends to follow the evolution of RUCIO as an alternative to DIRAC for Data Management. (RUCIO is becoming the most adopted solution)
- The Committee recommends to prepare and implement a plan to have the maximum redundancy of DIRAC.
  - Core at IHEP should be in High-Availability
  - Other modules replicated in other T1 outside China
  - All it is needed to guarantee JUNO computing activity also in case of IHEP or network problems
- The Committee recommends to follow the development in WLCG in order to profit of them
  - VOMS => IAM

IHEP

- The Committee recommends IHEP data center to prepare a more detailed and tight schedule to ensure the success of the migration of the current storage system to EOS and CTA; needed manpower should also be considered
  - to replace CASTOR with CTA and hence install EOS
    - migration to EOS and CTA is considered a strategic issue
    - more precise schedule, including the manpower required, is definitely needed
- The Committee recommends to carefully monitor the status of the network connectivity between the experimental site and IHEP in order to guarantee the redundancy of the link.
- The Committee recommends to prepare a detailed schedule for the realization of the DQM.
- The Committee recommends that the DQM service will be in production on the experimental site.
- To investigate the interaction of the DQM with the DAQ system

Kaiping

- To have adequate storage resources on site in order to be able to buffer up to one month of data, i.e. a small-capacity tape library
- The Committee recommends to verify the redundancy foreseen for the general power supply and the cooling system at the experimental site.