Problem Space

Heterogeneous HPC environments
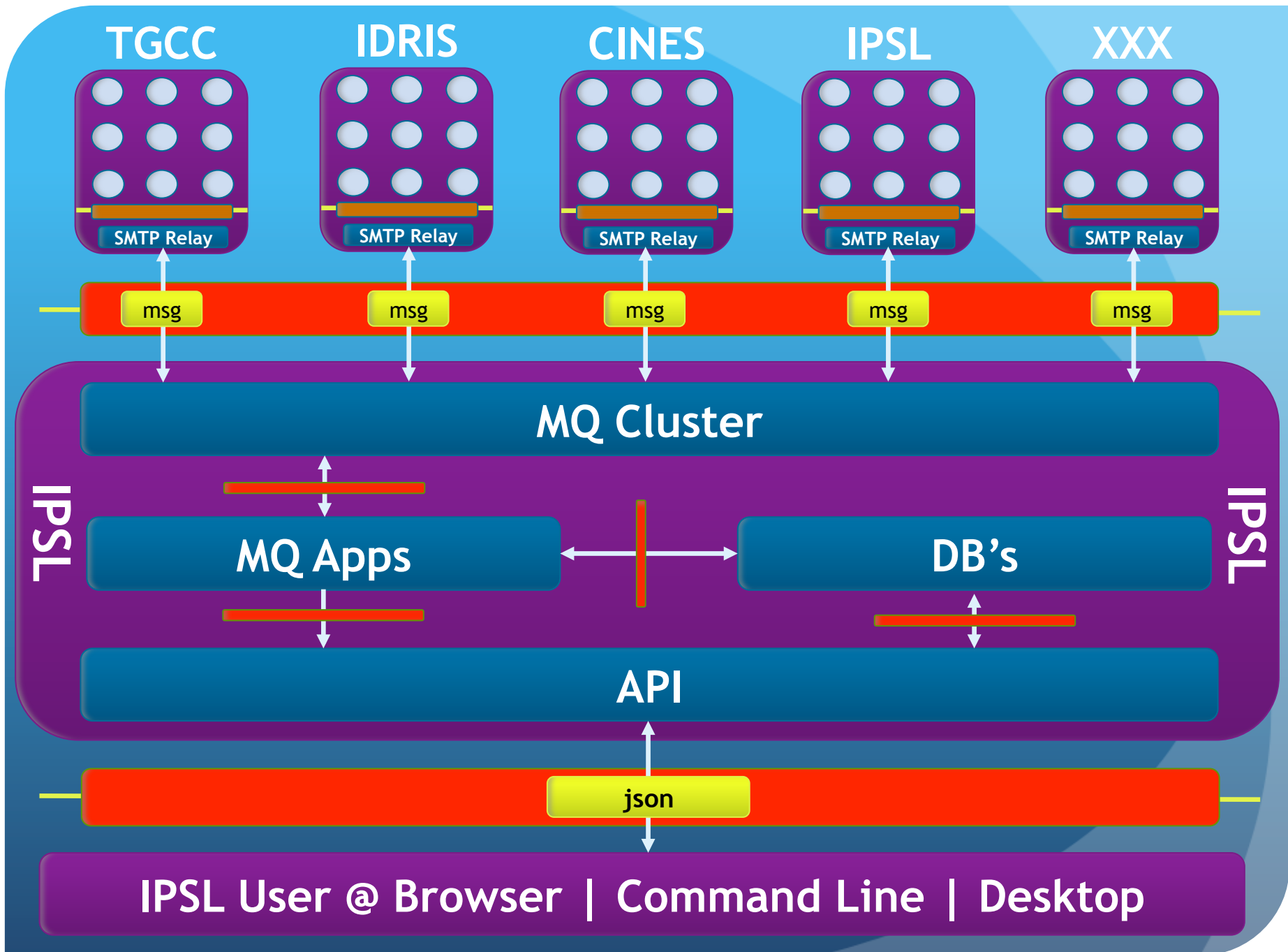
Large community (not always disciplined)

SSH is king

No global view

Real-time apps impossible

etc, etc, etc

TGCC   IDRIS   CINES   IPSL   XXX

SMTP Relay   SMTP Relay   SMTP Relay   SMTP Relay   SMTP Relay

msg   msg   msg   msg   msg

IPSL

MQ Cluster

MQ Apps   DB's

API

json

IPSL User @ Browser | Command Line | Desktop

IPSL

Realtime Solution Space

Simulation monitoring & control

ESG-F integration: data publishing

ES-DOC integration: documentation publishing

PCMDI simulation metrics publishing

HPC diagnostics aggregation

Controlled vocabulary management

Push notifications: Web Socket, SMS, SMTP, MQ