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WHY DATA BASE AS A SERVICE
WILL BE A BREAKAWAY
TECHNOLOGY AT
SOCIÉTÉ GÉNÉRALE

BUILDING TEAM SPIRIT TOGETHER



SOCIÉTÉ GÉNÉRALE
Corporate & Investment Banking



Christian Bilien

Global Head of the Data Base teams



Investment Banking, Private
Banking and Asset
Management

WHO SAID ?

“A pessimist sees the difficulty in every opportunity;

an optimist sees the opportunity in every difficulty.”



WHO SAID ?

« Like philosopher
Jagger said,
you can't always get
what you want »



DB refresh is a necessary evil

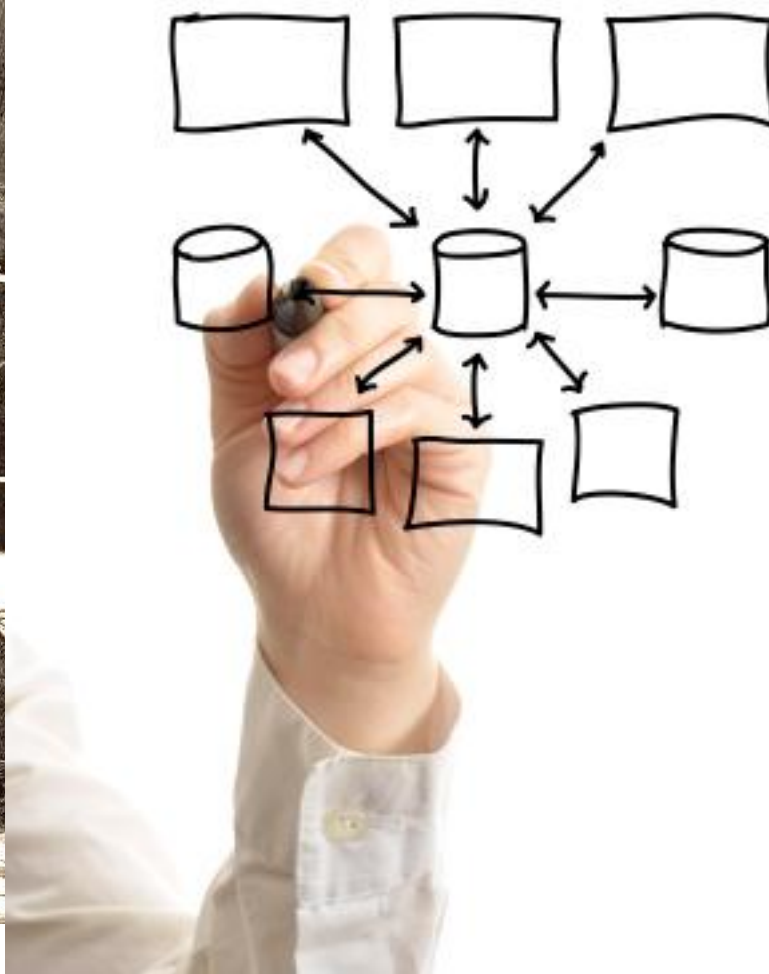
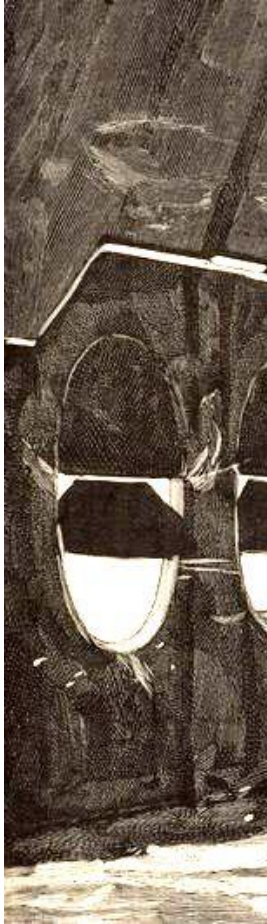
#70000 full DB refresh/year

#14 ZB/year

83% of complaints are DB refresh-related

10% are on demand, 50% of complaints

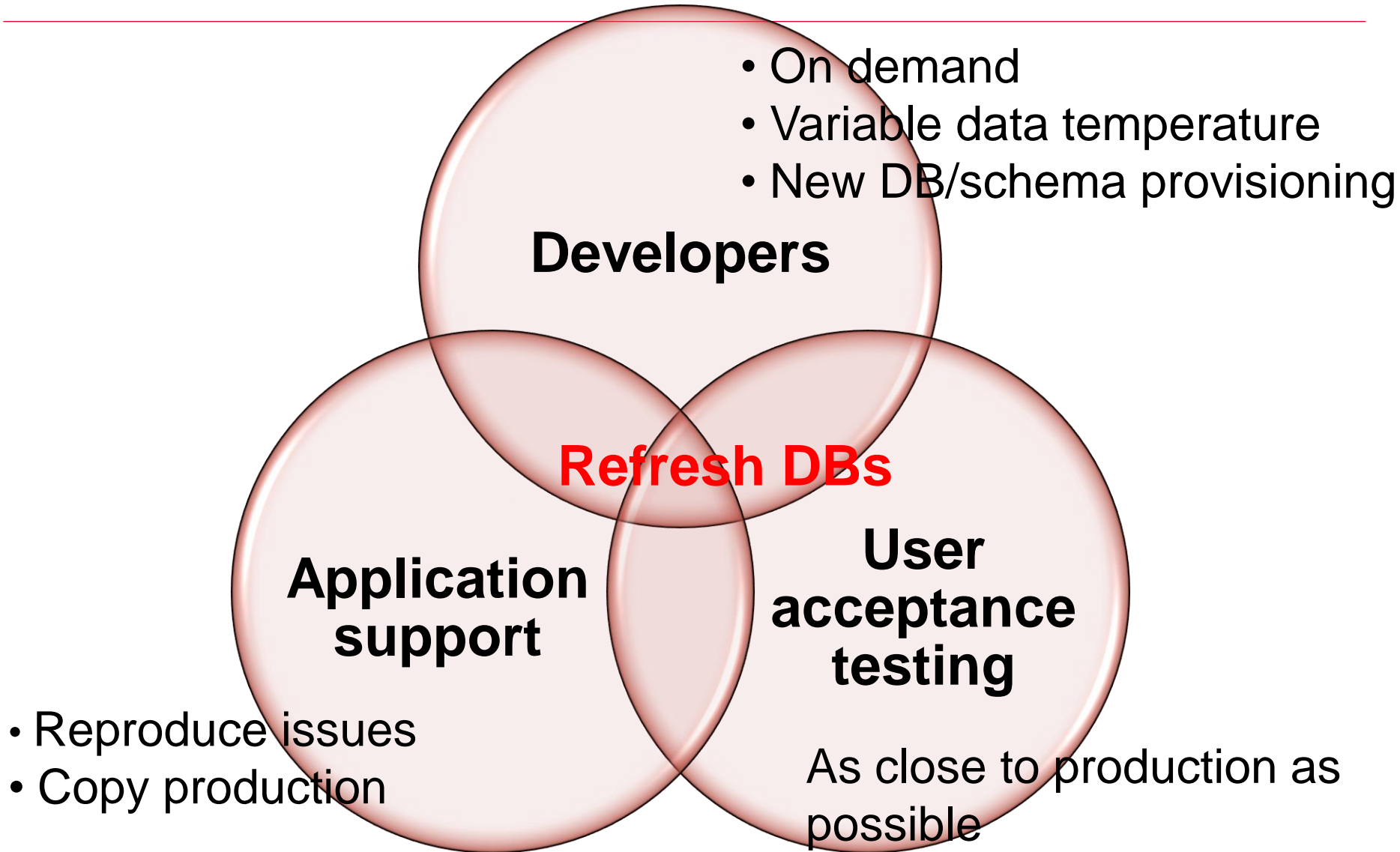
WHAT IS A DBA USEFUL TO ?



GONE OFF RAIL

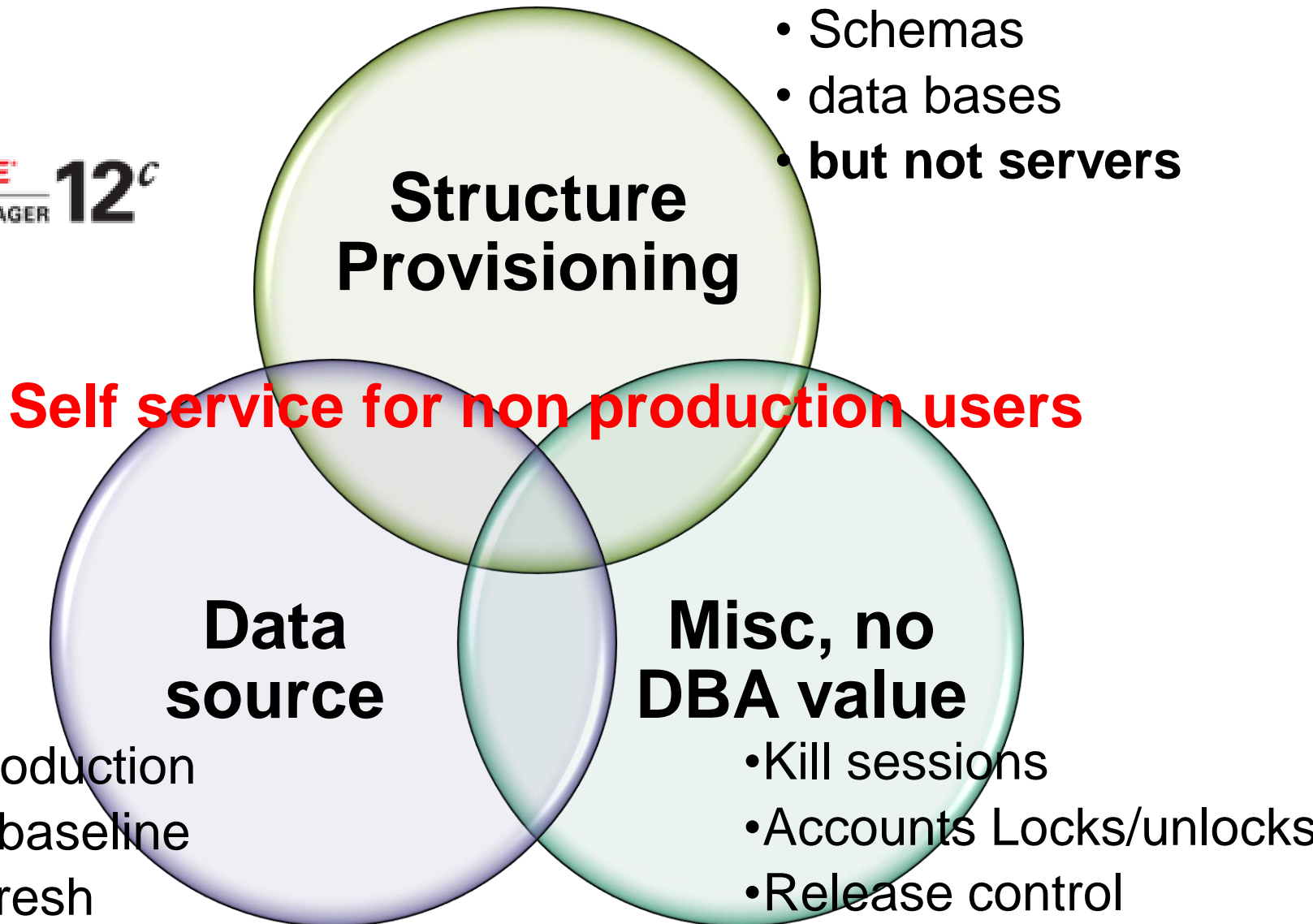


DATA PROVISIONING REQUIREMENTS



SERVICE CATALOG/ DBAAS SALIENT FEATURES

ORACLE
ENTERPRISE MANAGER 12^c

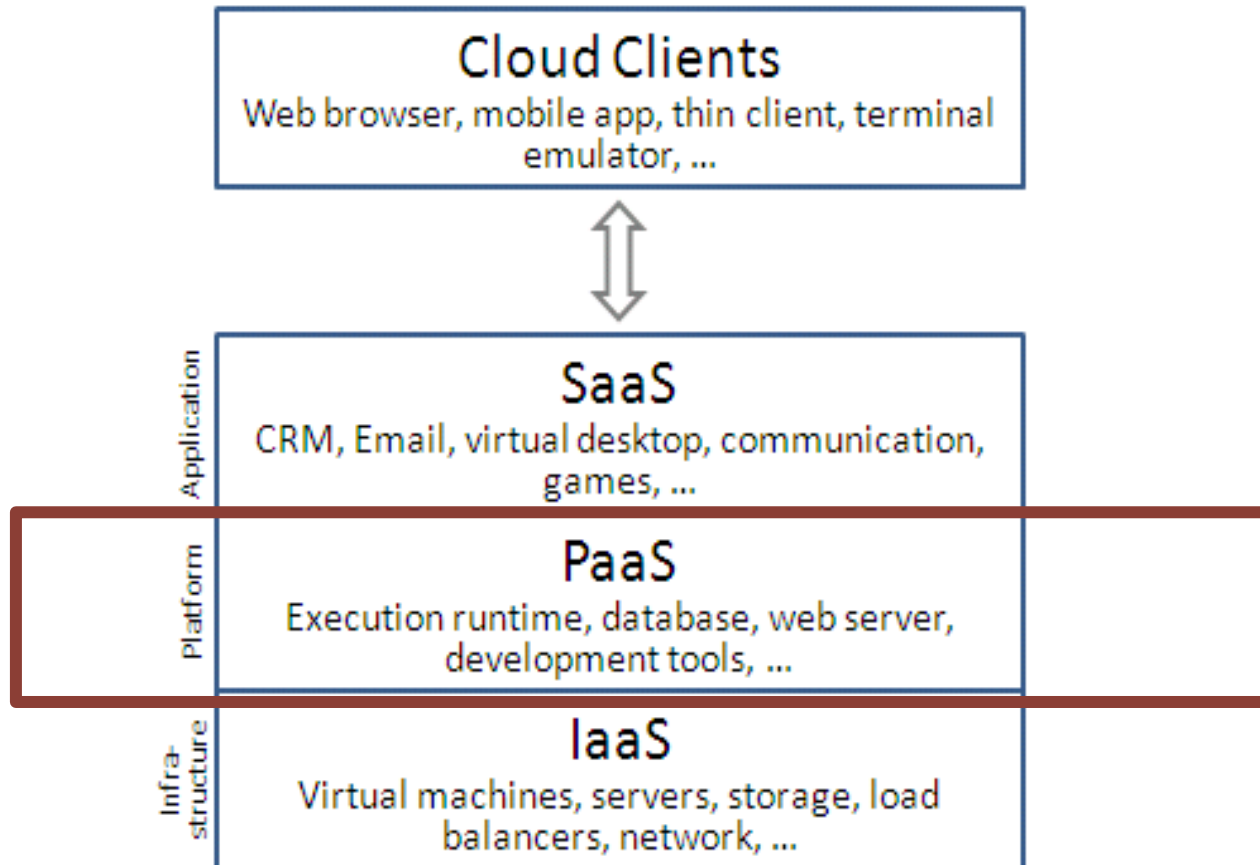




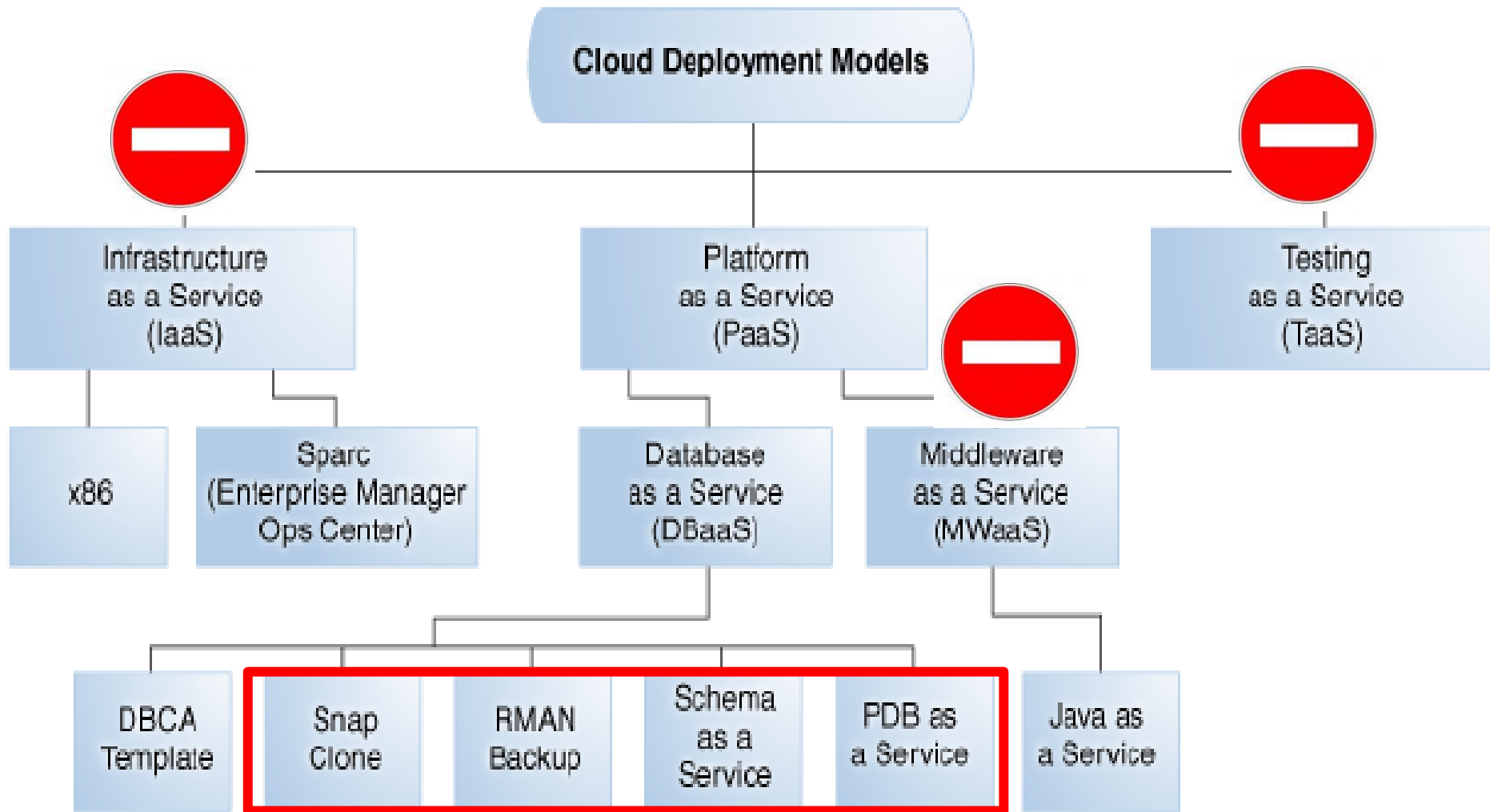
- **XaaS: Anything As A service**
- **Agile & DevOps**

ANYTHING AS A SERVICE

DBaaS



OEM 12C CLOUD MANAGEMENT MAPPING



« Our highest priority is to satisfy the customer through early and **continuous delivery** of valuable software »

1st principle of the Agile Manifesto

■ APIs based infrastructure management

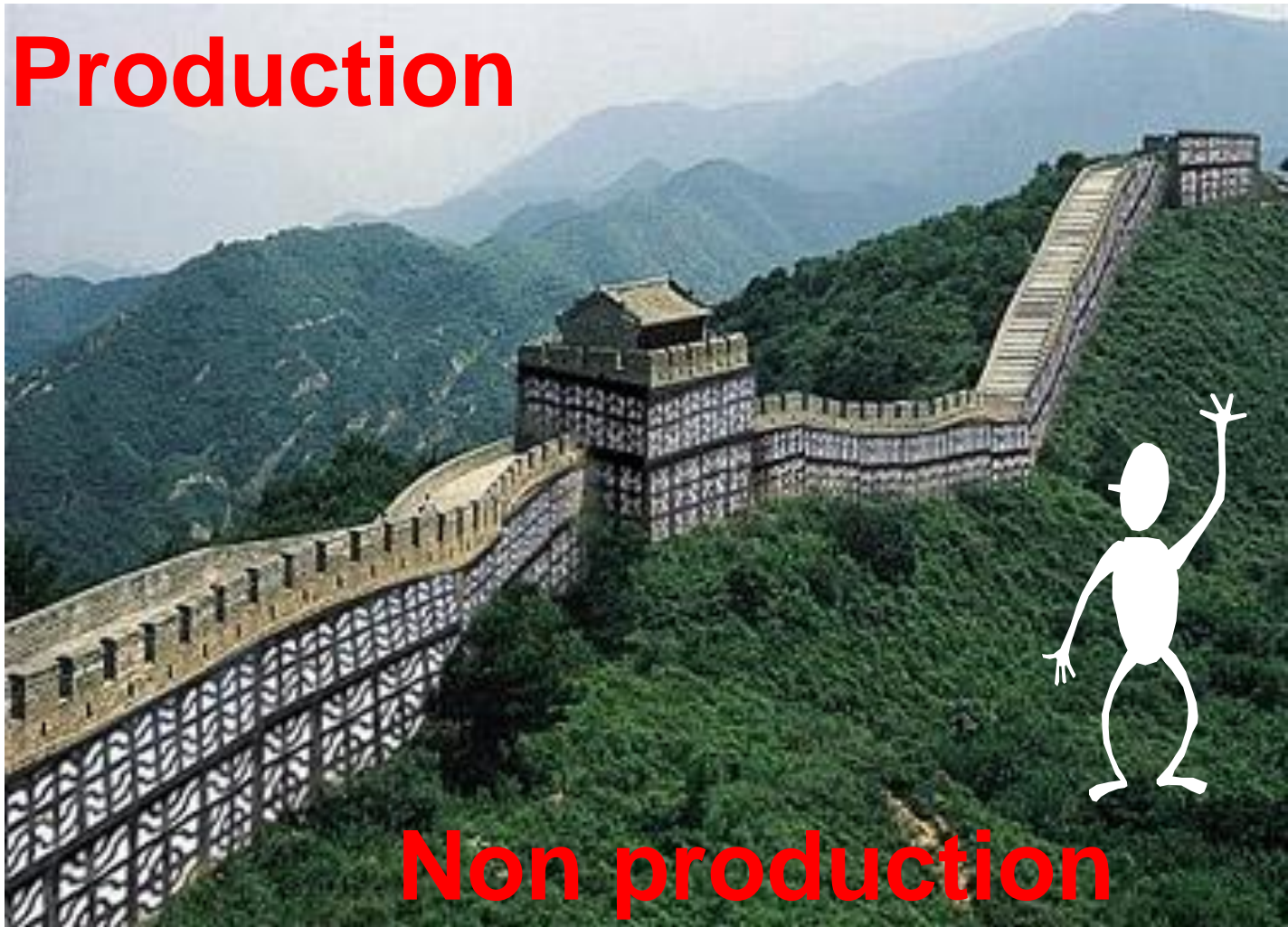
```
curl -k -i \ -X POST \ ...  
-d {  
"zone": "/em/cloud/dbaas/zone/FDAxx ",  
"params": {"username": "chris",...}' \   
https://mysrv.fr.world.socgen:7799  
/em/cloud/dbaas/dbplatformtemplate/0173...BC
```

■ Service catalog exposed via APIs



DATA FLOWS

Production

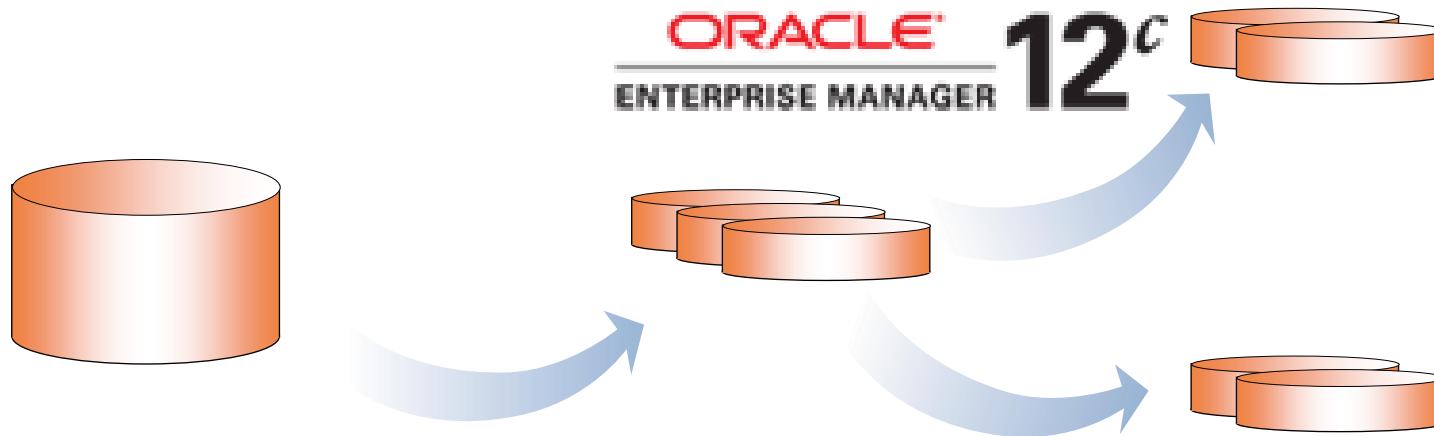


Non production

THIN PROVISIONING CLONING

Infrastructure

Self service



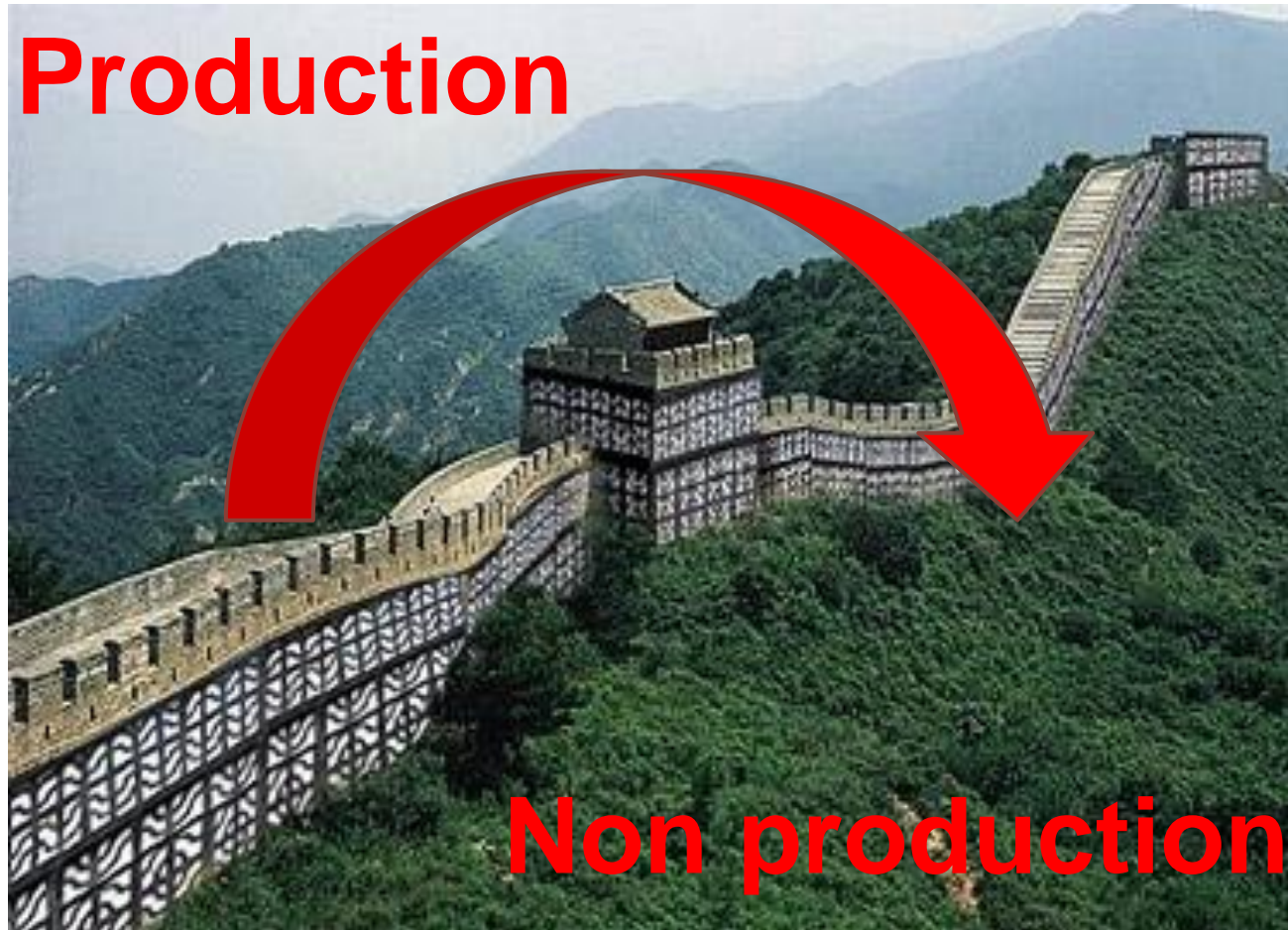
Reference DB

Snap clones

Snapshots

NAS (dNFS + NetApp)

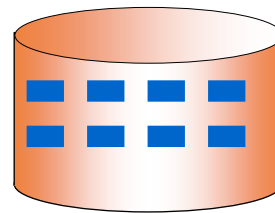
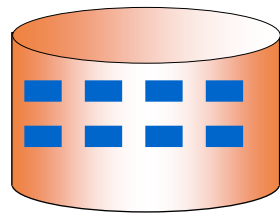
CROSSING THE CHINA WALL



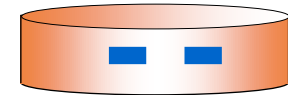
REFERENCE DATA BASE USING RMAN

Production

Non production



Reference DB

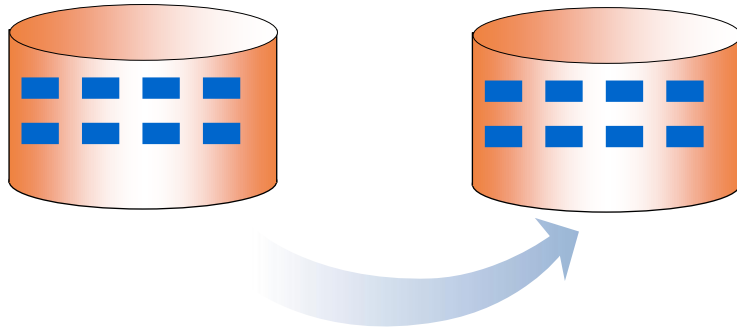


Rman backup

Restore and
message data
before cloning

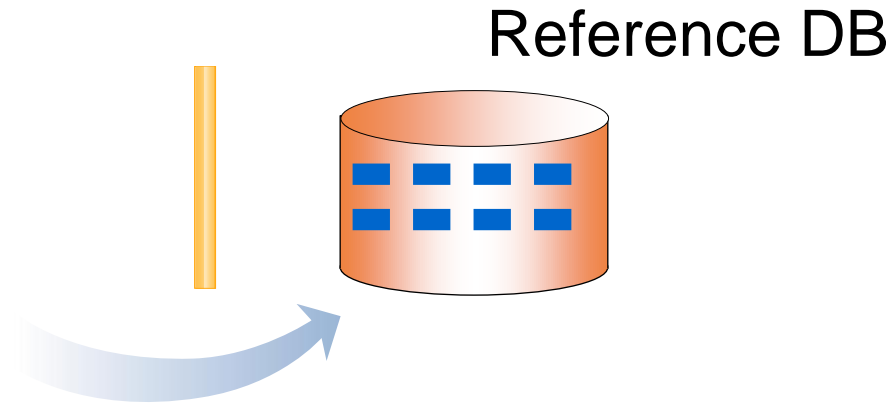
REFERENCE DATA BASE USING DATA GUARD

Production



Data Guard Fast
Recovery for corruptions

Non production



Cascaded Data
Guard

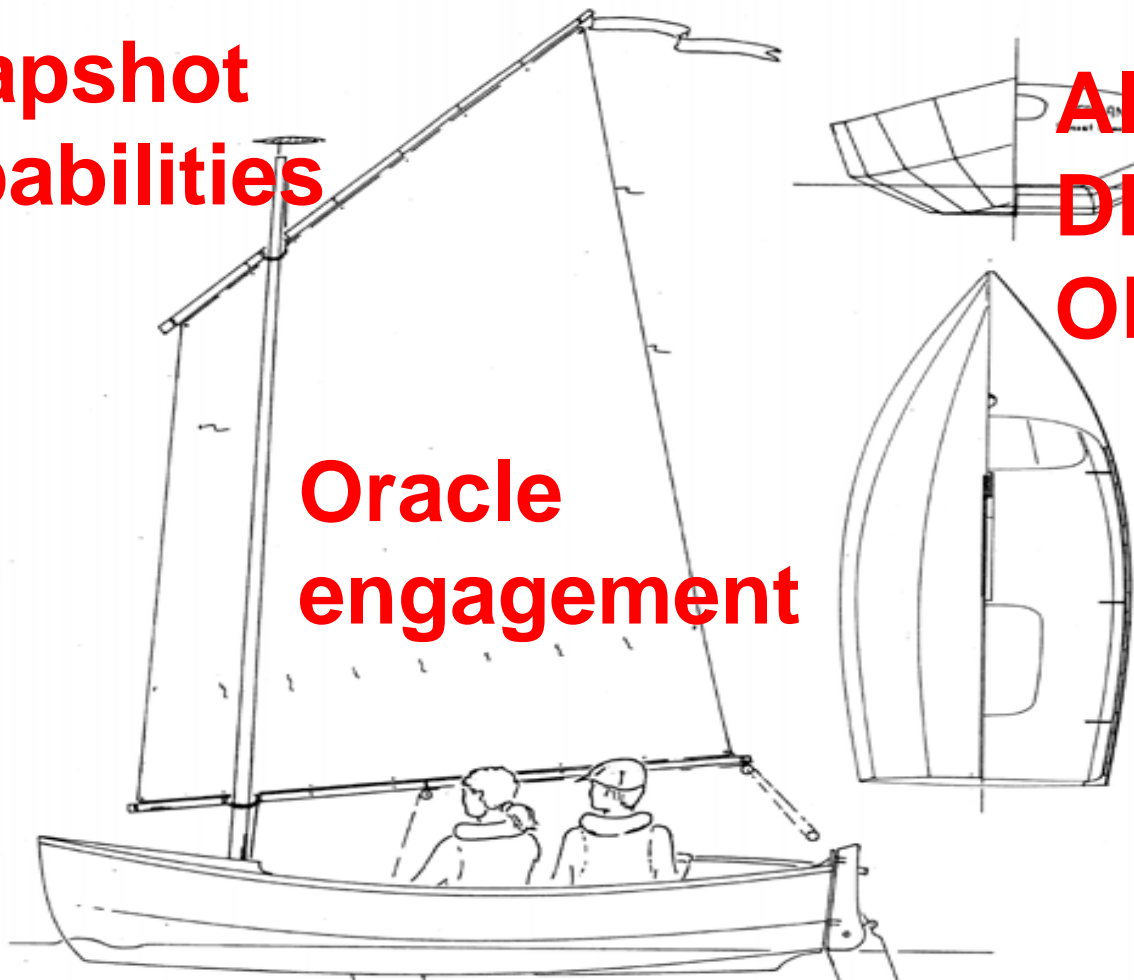
Snapshot capabilities

All Oracle DBs under OEM

Oracle engagement

APIs

Self Service



François Morlot: Application Manager & Interest Rate Derivatives IT Team leader at SGCIB

DB Refreshes were the most painful issue in the management of our infrastructure environment.

The deployment of DBaaS @SG is a huge progress and a key success factor of our agile methodology: we can now refresh a DB on demand in 15 minutes in our software factories and non regression tests DBs !

You can almost always
get what you want

