

Production infrastructure/operation

Armando Fella on behalf of Italian distributed computing group

Distributed Computing human network

CNAF

Caltech

SLAC

McGill

UVIC

Queen Mary

RAL T1

RAL T2

GRIF

CCIN2P3

Bari

Legnaro - Padova

Napoli

Ferrara

Pisa

Italian group

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Steffen Luiz, Wei Yang

Steven Robertson

Ashok Agarwal

Adrian Bevan, Christopher Wilson

Fergus Wilson, Chris Brew

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Silvio Pardi

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Distributed resources

CPU				Disk space for data		
	minimum	maximum	"average"	available	needed	
	(cores)	(cores)	(2*min+max)/3 (cores)	(TB)	(TB)	
CNAF	500	1000	667	CNAF	50	12
SLAC	200	1000	467	SLAC	few*10	8
UVIC	100	300		UVIC	2	1
CALTECH	250	250	250	CALTEC	20	5
McGill	60	60	60	McGill	-	1
RAL T2	50	100		RAL T2	10	7
RAL T1	300	600	400	RAL T1	10	7
CCIN2P3	300	600	400	CCIN2P3	-	7
GRIF	50	100	400	GRIF	-	-
QMUL	50	50	400	QMUL	2	2
Pisa	50	200	100	Pisa	-	2
<u>Legnaro-Pd</u>	50	100	67	<u>Legnaro-Pd</u>	-	1
<u>Napoli</u>	50	100	67	<u>Napoli</u>	-	1
<u>Bari</u>	50	100	67	<u>Bari</u>	-	1
<u>Ferrara</u>	10	50	23	<u>Ferrara</u>	-	0
Total	2060	4560	3343.33	Total	94	
	may need to be updated			may need to be updated		

Site setup status

Sites ready for test production:

- GRIF, RAL T2, QMUL, Pisa, Bari, Legnaro

Sites still need configuration effort for Grid enabling

- SLAC, RAL T1, Napoli

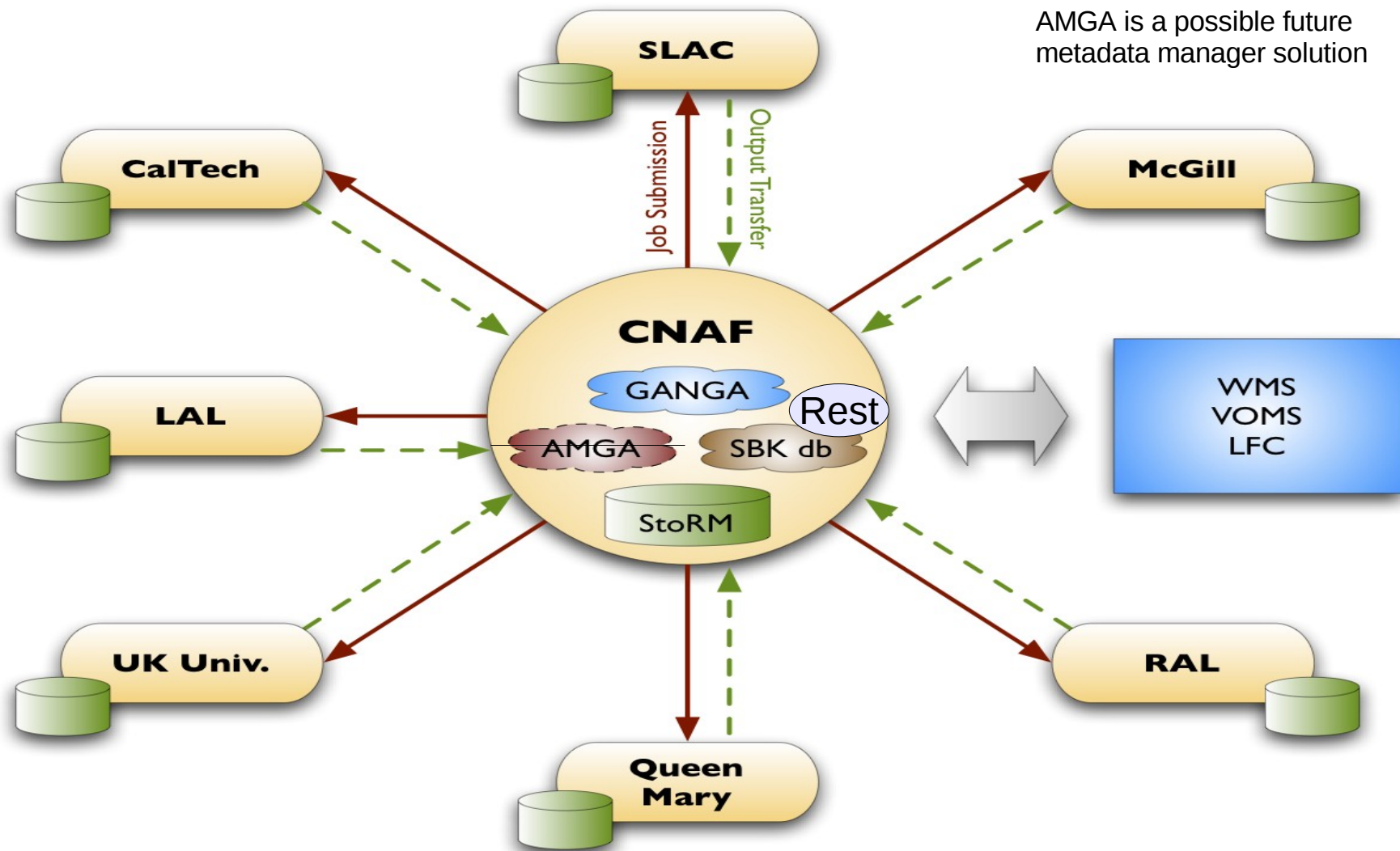
Sites still need configuration effort for local production enabling

- UVIC, Caltech

Production suite status

- Suite for background study: ready
- Suite for BkgFrame production: ready
- Suite for distributed Fast Simulation production:
waiting for Dave feedback

Full Grid integrated production design



Full Grid integrated production workflow

- The job input files are transferred via LCG-Utills to the involved site Storage Elements
- The job submission is performed by GANGA on User Interface at CNAF
- The WMS routes the jobs to the matched site
- The job is scheduled by the site Computing Element to a Worker Node
- The job during running time
 - accesses the DB for initialization and status update via Rest interface
 - retrieves/access input files by local Storage Element
 - transfers the output to the CNAF Storage Element

