



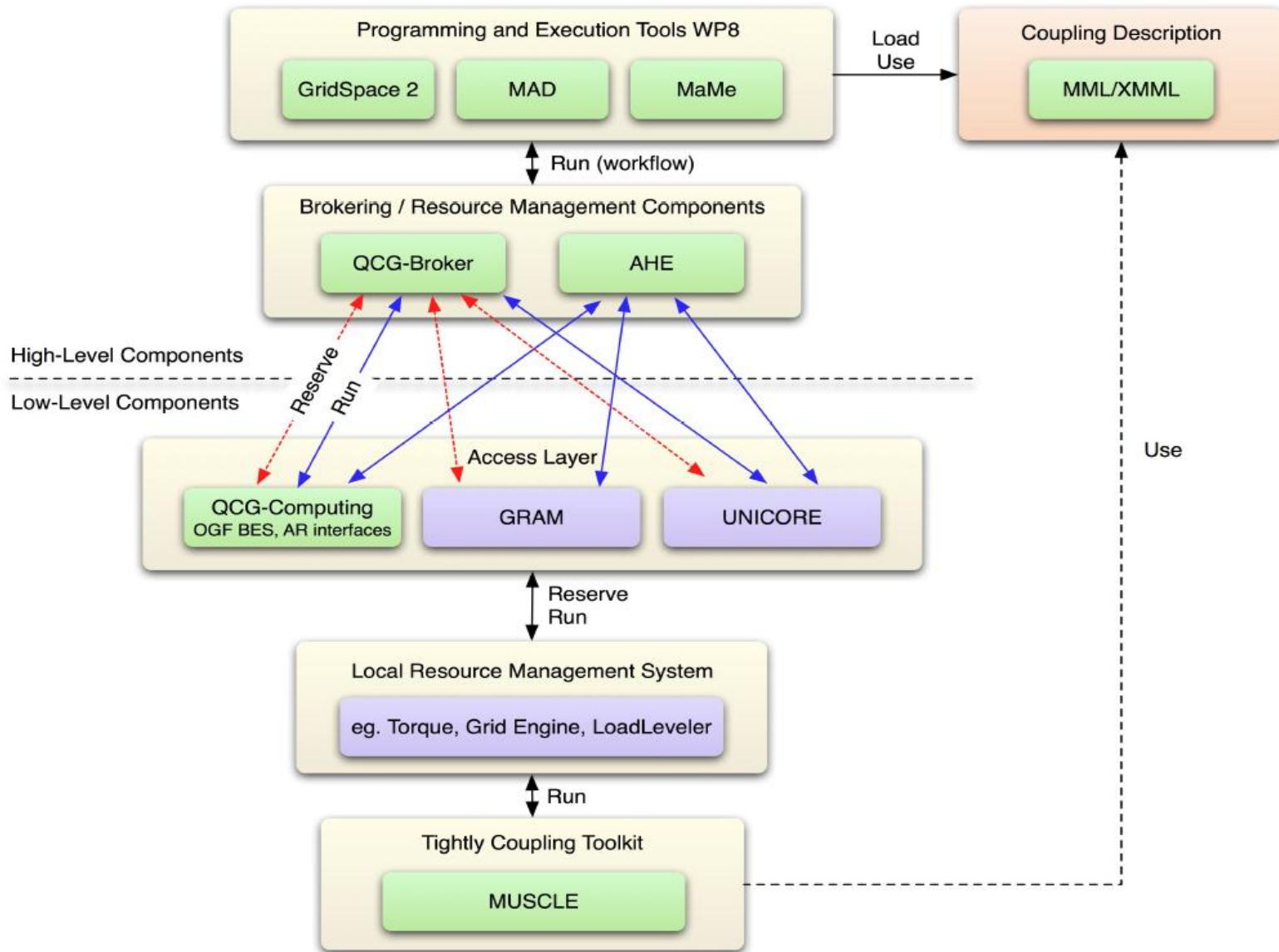
# Software in MAPPER Sustainability aspects



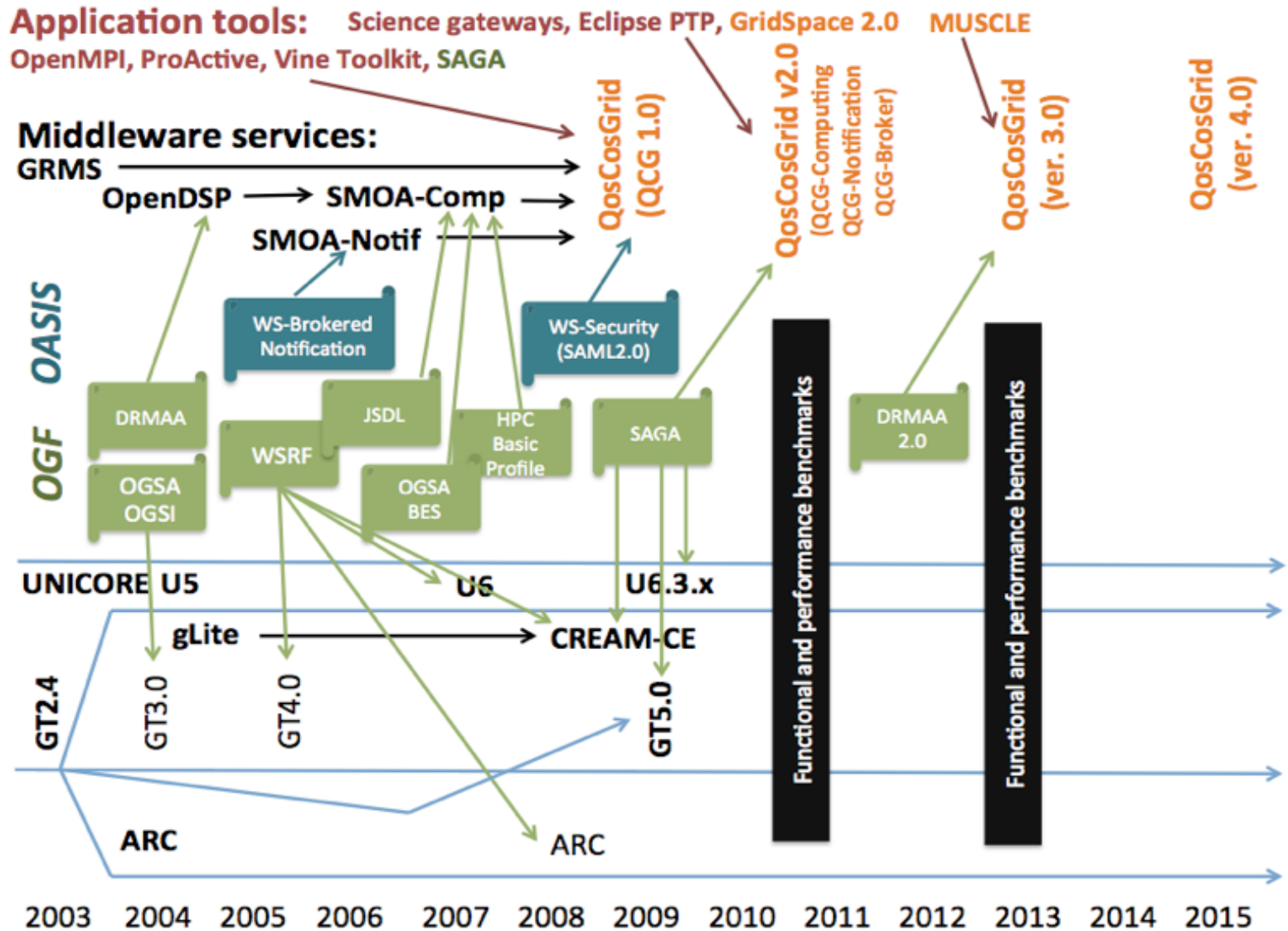
17.01.2012

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# Software components



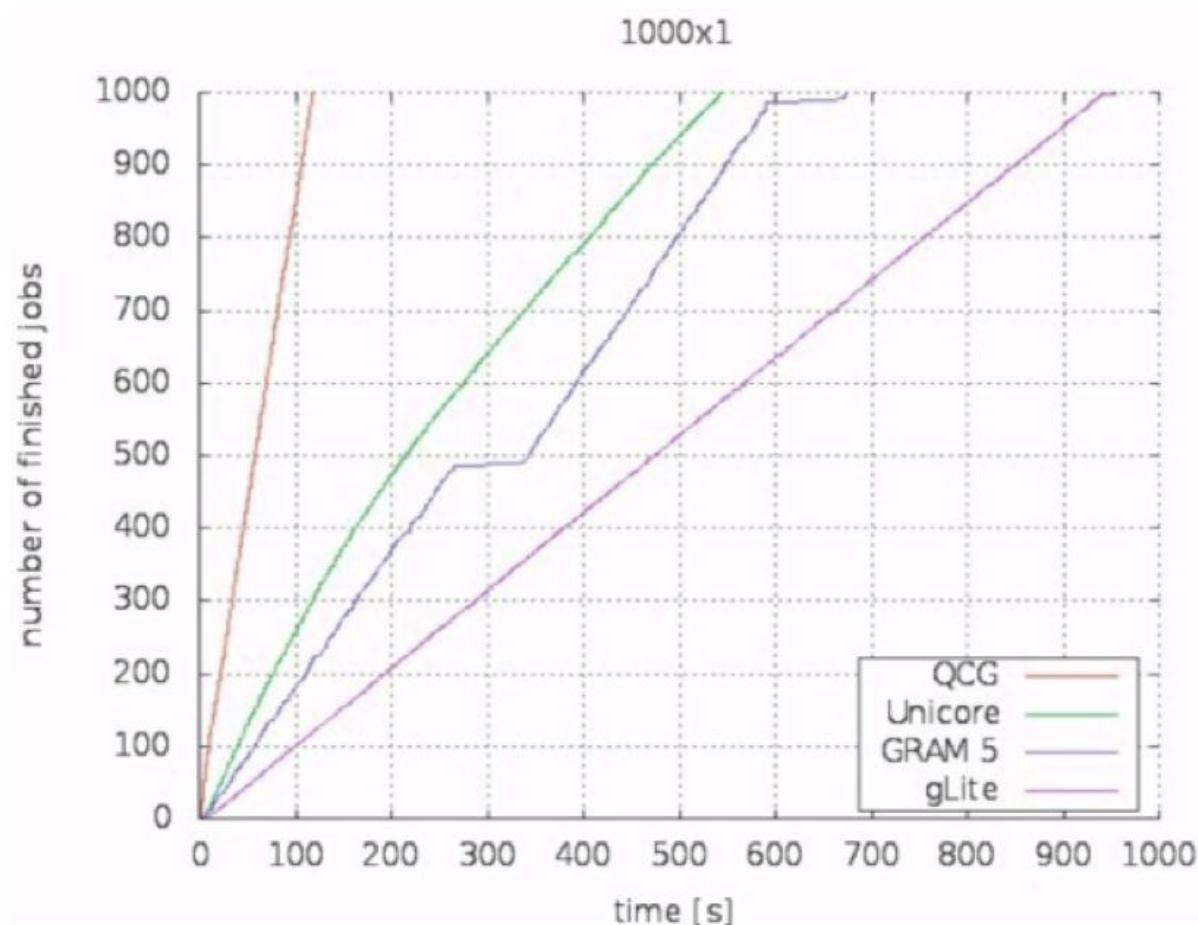
# Standards (middleware)



# Efficiency and new capabilities



- Example benchmark of remote job submissions using the OGF SAGA testsuit and BES interfaces supported by different middleware
- Note that QCG middleware supports also additional features, in particular Advance Reservation and co-allocation to synchronize in time access to distributed computing resources



# Fast vs. Deep tracks (2011)



	Fast Track Components	Deep Track Components	Partners
Users tools (coupling and execution env.)	MAD & MaMe	MAD & MaMe	Cyfronet
	Vine Toolkit		PSNC
	SAGA		open source comm.
Interoperability layer	Nagios	UMD, Accounting	open source comm.
	AHE	AHE	UCL
	QCG-Broker	QCG-Broker	PSNC
	GridSpace	GridSpace	Cyfronet
e-Infrastructure (middleware building blocks)	MPI	QCG-OMPI, MPWide	open source comm.
	MUSCLE	MUSCLE	UvA / PSNC
	QCG-Comp	QCG-Computing/Notif	PSNC
	UNICORE		Julich
	GridFTP		open source comm.