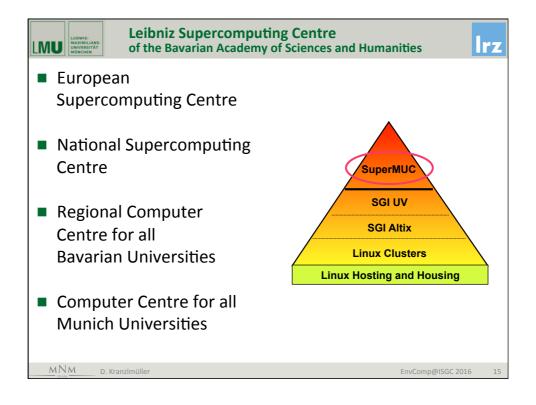
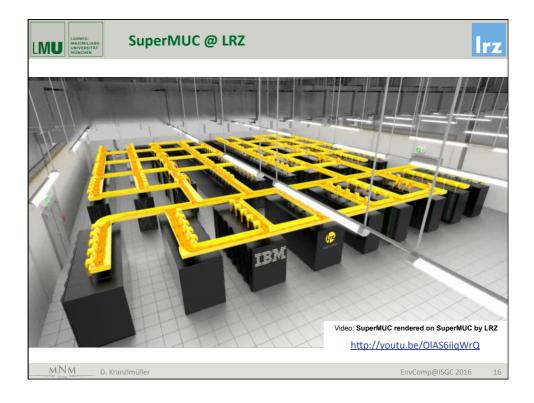


LMU	ental Computing Workshop
 Session I Introduction to the Workshop (Dieter Kranzlmüller) 	 Session III Land Use Development Simulation Systems (Feng-
 Keynote: Research Center for Environmental Changes 	Tyan Lin) Application of numerical
(Huang-Hsiung Hsu) Session II	model on extreme weather and environmental studies (Chuan-Yao Lin)
 The Big Picture (Matti Heikkurinen) 	 The Applications of Advanced Numerical Simulation on the
 DMCC (Eric Yen) Mekong Delta (Nam Thoai) Environmental Exascale 	Tsunami and Flooding Hazard Mitigation (Tso-Ren Wu)
Computing (Dieter	Session IV
Kranzlmüller)	Panel and Discussion
MNM D. Kranzlmüller	EnvComp@ISGC 2016 12









	WIG- IMILIANS- VERSITÄT ICHEN	Top 500 Supe	ercomputer List (Ju	une 2	2012)		
	Rank	Site	Computer/Year Vendor	Cores	R _{max}	R _{peak}	Power	
	1	DOE/NNSA/LLNL United States	Sequoia - BlueGene/Q, Power BQC 16C 1.60 GHz, Custom / 2011 IBM	1572864	16324.75	20132.66	7890.0	
	2	RIKEN Advanced Institute for Computational Science (AICS) Japan	K computer, SPARC64 VIIIfx 2.0GHz, Tofu interconnect / 2011 Fujitsu	705024	10510.00	11280.38	12659.9	
	3	DOE/SC/Argonne National Laboratory United States	Mira - BlueGene/Q, Power BQC 16C 1.60GHz, Custom / 2012 IBM	786432	8162.38	10066.33	3945.0	
	4	Leibniz Rechenzentrum Germany	SuperMUC - iDataPlex DX360M4, Xeon E5-2680 8C 2.70GHz, Infiniband FDR / 2012 IBM	147456	2897.00	3185.05	3422.7	
	5	National Supercomputing Center in Tianjin China	Tianhe-1A - NUDT YH MPP, Xeon X5670 6C 2.93 GHz, NVIDIA 2050 / 2010 NUDT	186368	2566.00	4701.00	4040.0	
	6	DOE/SC/Oak Ridge National Laboratory United States	Jaguar - Cray XK6, Opteron 6274 16C 2.200GHz, Cray Gemini interconnect, NVIDIA 2090 / 2009 Cray Inc.	298592	1941.00	2627.61	5142.0	
	7	CINECA Italy	Fermi - BlueGene/Q, Power BQC 16C 1.60GHz, Custom / 2012 IBM	163840	1725.49	2097.15	821.9	
	8	Forschungszentrum Juelich (FZJ) Germany	JuQUEEN - BlueGene/Q, Power BQC 16C 1.60GHz, Custom / 2012 IBM	131072	1380.39	1677.72	657.5	
	9	CEA/TGCC-GENCI France	Curie thin nodes - Bullx B510, Xeon E5- 2680 8C 2.700GHz, Infiniband QDR / 2012 Bull	77184	1359.00	1667.17	2251.0	
	10	National Supercomputing Centre in Shenzhen (NSCS) China	Nebulae - Dawning TC3600 Blade System, Xeon X5650 6C 2.66GHz, Infiniband QDR, NVIDIA 2050 / 2010 Dawning	120640	1271.00	2984.30	2580.0	www.top5
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