

Latin America (Southern Cone) Gas to Power? We have a problem

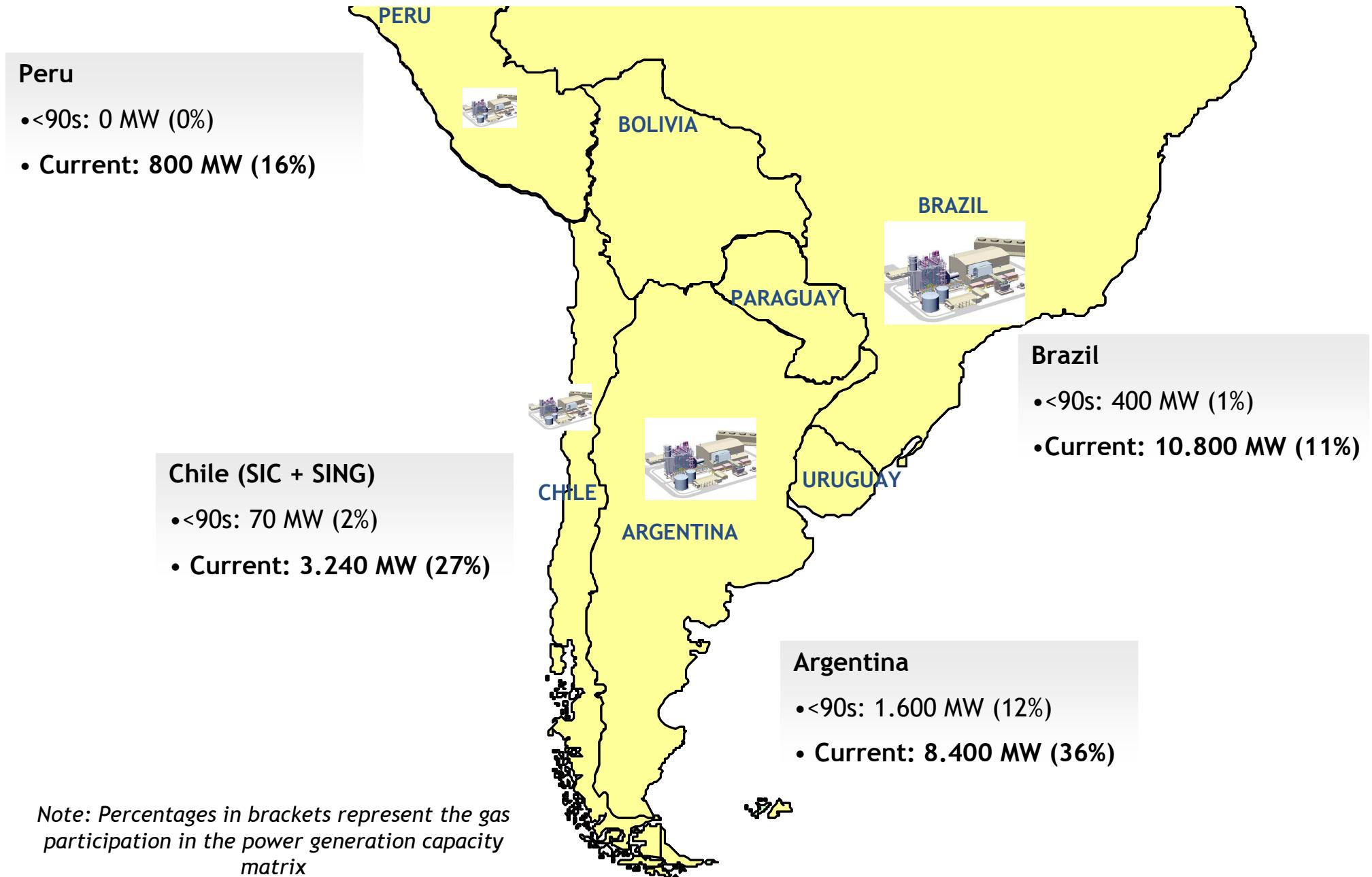
Ricardo Markous

International Gas Union

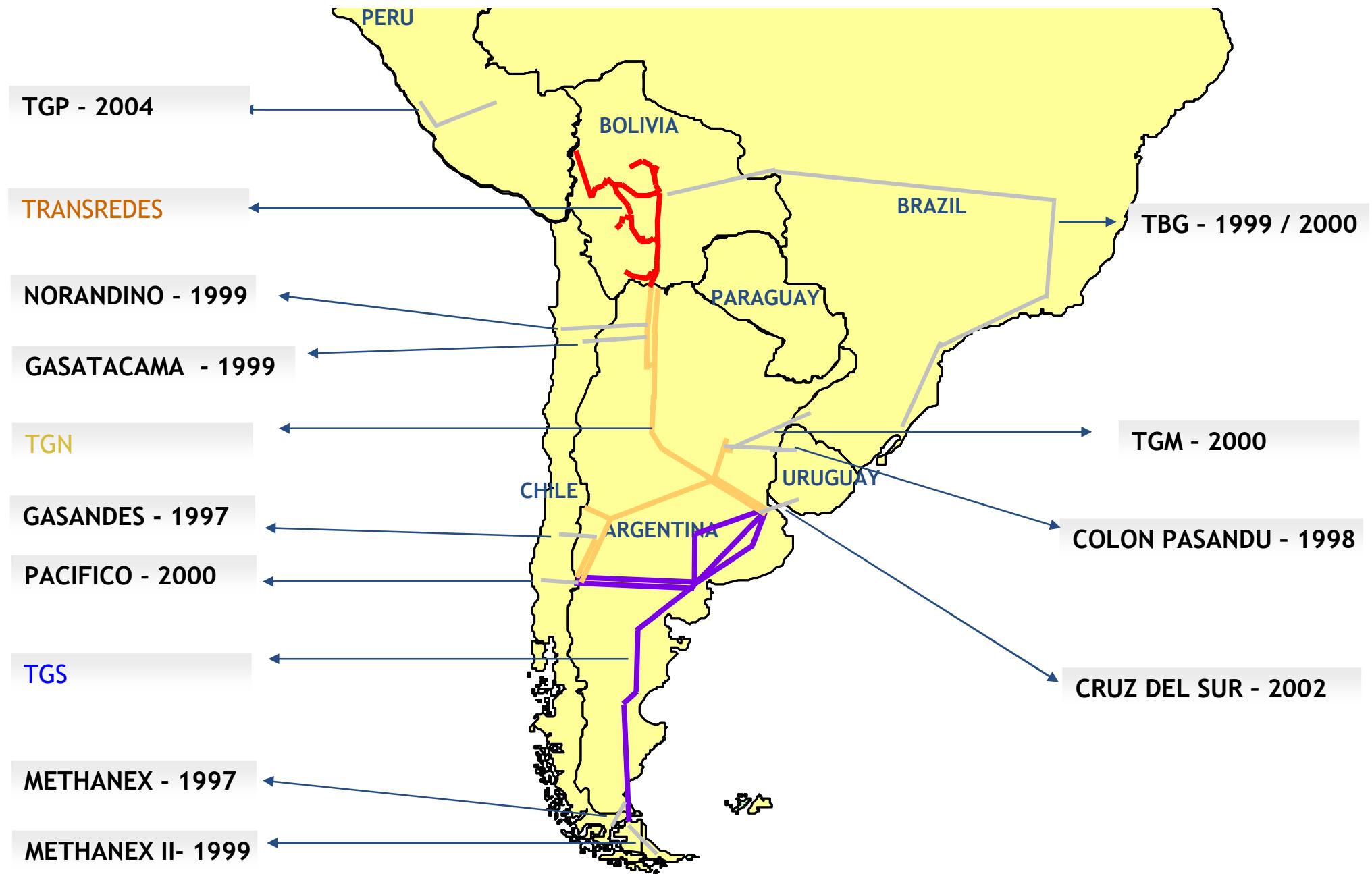
June 2006

Amsterdam - Netherlands

Infrastructure - Gas Power Generation Capacity



Infrastructure - Gas Pipelines



Futures depends on

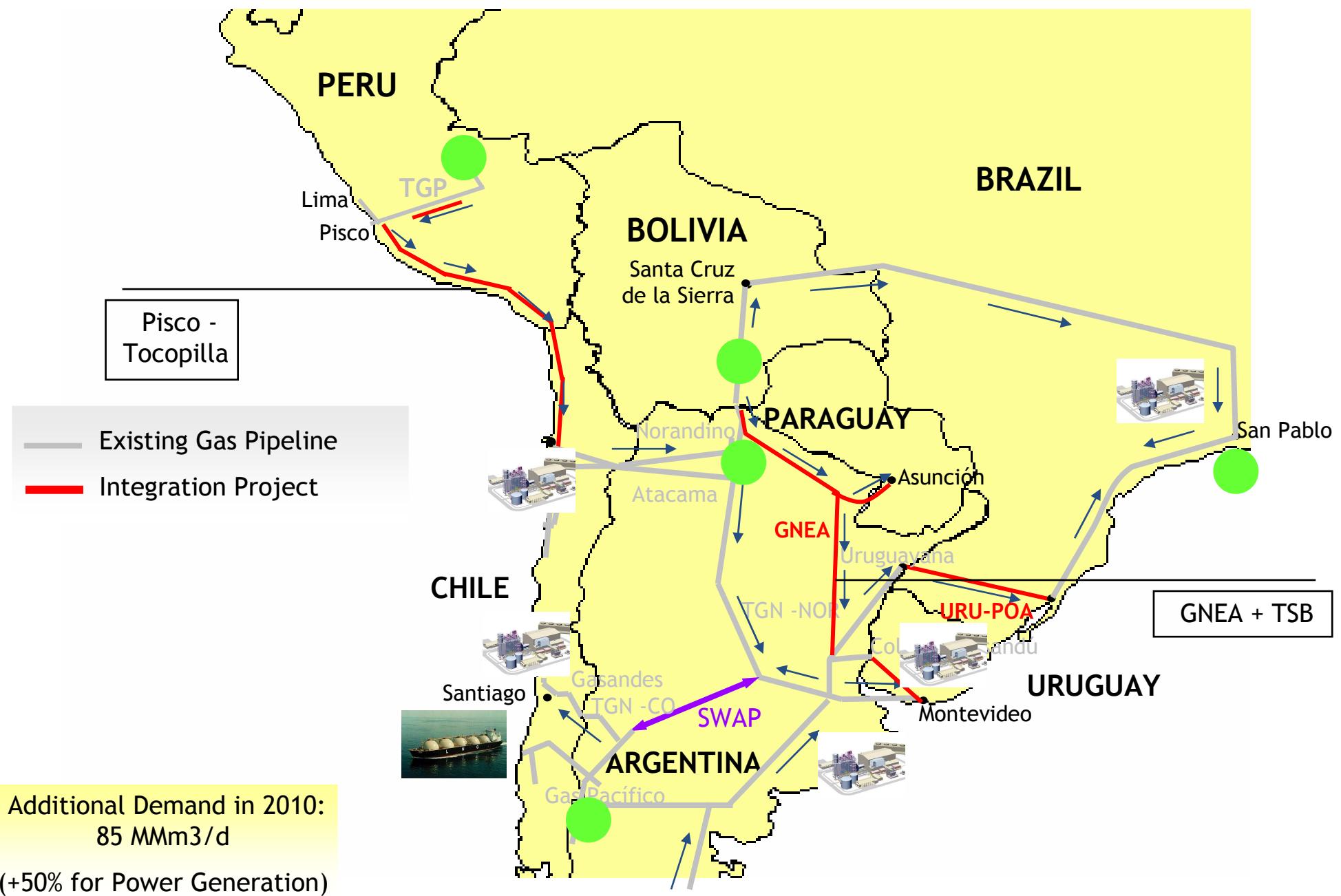
- Investment in Bolivia: Reserves Exploration & Development
 - Average 1998-2001: 500 MMus\$
 - Average 2002-2005: 250 MMus\$ (2005: 200 MMus\$ (150 develop; 50 exploration))
 - Future: ???
- Infrastructure: Pipelines + Gas Power plants
 - Clear Internal rules= Private Investment / or Government Investment
 - Integration Projects - Cross Border Issues to be addressed (Energy Charter Treaty (?))
- Pricing
 - Coal, Hydro and others sets cap price for Bolivian natural gas

	Coal (PC)	Natural Gas	
Investment 10^3 u\$s/Mw	1,200	600	→ NOTE: Does not include pipeline (500 MMus\$ approx)
Investment u\$s/Mwh	20	9	
Fuel + Transp. u\$s/Mwh	22	36	→ = 5.1 us\$/MMBTU
O&M u\$s/Mwh	7	4	
Total Cost u\$s/Mwh	49	49	

PC: Pulverized Coal

Natural Gas at Argentina-Bolivia border < **4 u\$s/MMBTU**

Alternative 1: With Bolivia



Alternative 2: Without Bolivia



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