

SASOL
reaching new frontiers



unlocking opportunities: the ceo water mandate approach

(16 august 2009 – public session)

martin ginster
sasol
south africa



what is sasol?

SASOL
reaching new frontiers



- sasol is a global integrated energy and chemicals company with a large south african footprint



- spans mining, oil and gas, synthetic fuels, oil refining, and six chemical industries



- sasol converts synthesis gas to liquid hydrocarbons



sasol's need for water

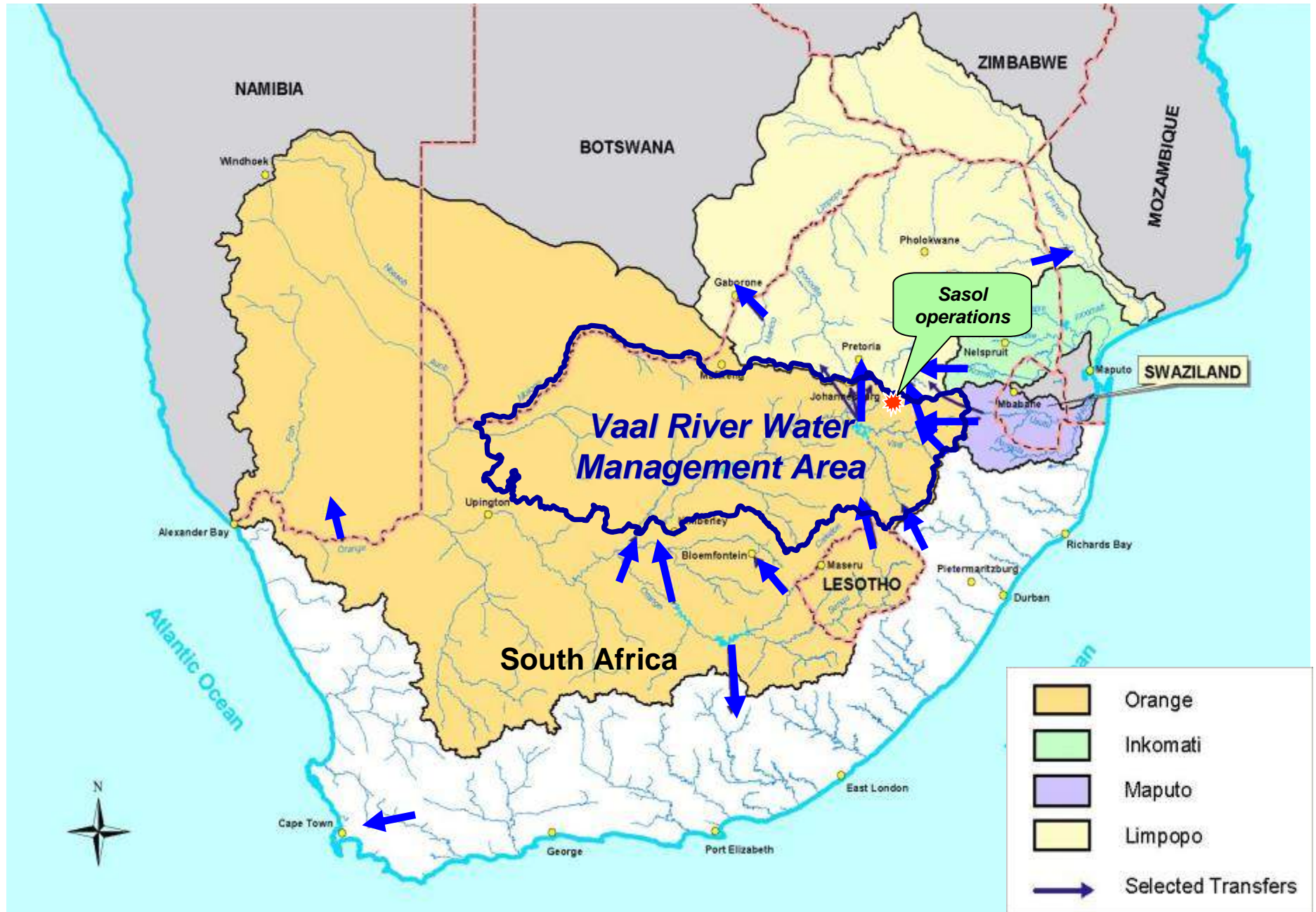
SASOL
reaching new frontiers



- used primarily to regulate temperatures and generate steam
 - *required at a high assurance of supply*
- our demand from the vaal river water supply system is relatively small (4% of yield)
- assuring reliability of supply remains an ongoing challenge
- good rains, dams full but growing concern with imbalances



international rivers shared by south africa




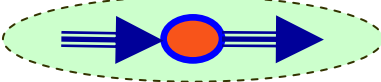
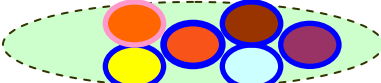
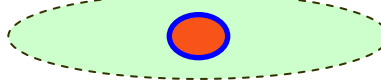
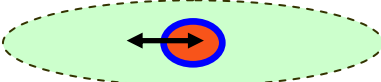

united nations global compact ceo water mandate

SASOL
reaching new frontiers



key focus areas

expected outcome

direct operations		<i>process efficiency improvements</i>
supply chain & watershed management		<i>beyond fence line engagement, security and footprint reduction</i>
collective action		<i>influencing positive behaviour</i>
public policy		<i>water for growth and development, changing legislation</i>
community engagement		<i>continuous efforts</i>
transparency		<i>publish annual sustainable development report (sasol.com)</i>

the CEO water mandate is seen as particularly useful when engaging in 'beyond the fence line' activities

water savings: direct operations vs. catchment management



**case 1 - cooling tower
blowdown recovery plant**



**case 2 - pressure
management on main
water header to township**



case 1		case 2
\$ 50 mill	capital	\$ 0.5 mill
18 Ml/day	saving	28 Ml/day
\$ 2.00/m ³	o & m	\$ 0.02/m ³



towards collective risk reduction

SASOL
reaching new frontiers



- moving “outside the factory fence”
- opportunities for positive impacts in water stressed catchments
- potential for public-private partnerships (business, government, donor institutions)
- ceo water mandate approach “outside the factory fence” could reveal greater improvements in water management within the same catchment

