

# Summary of Session on Wildfire Emissions

# Wildfire Emissions in GEMS

		Partial Funding
<p><b>Year 2</b> May 2006+12 mo</p>	<ul style="list-style-type: none"> <li>• Produce 3 different reanalyses for GHG, GRG, Aerosol</li> <li>• global emissions for 2003 of correct order of magnitude</li> <li>• inventory: GFED2</li> </ul>	
<p><b>Year 2.5-3.5</b> Nov 2007+ 12 mo</p>	<ul style="list-style-type: none"> <li>• Produce unified reanalyses for GHG, GRG, Aerosol</li> <li>• high-resolution (t&amp;s) global fire products for 2000-2007</li> </ul>	
<p><b>Year 3.5 - 4</b> Nov 2008+ 6 mo</p>	<ul style="list-style-type: none"> <li>• Final pre-operational trials</li> <li>• high-resolution (t&amp;s) global fire products in NRT</li> </ul>	No Funding
<p><b>post GEMS -</b> 2009 +</p>	<ul style="list-style-type: none"> <li>• operational phase</li> <li>• high-resolution global (t&amp;s) fire products in NRT</li> </ul>	

# Strategy for 2003 reanalyses simulations

Use of **GFEDv2** inventory (monthly product)  
(van der Werf et al. ACPD, 2006)

## **Modifications** discussed:

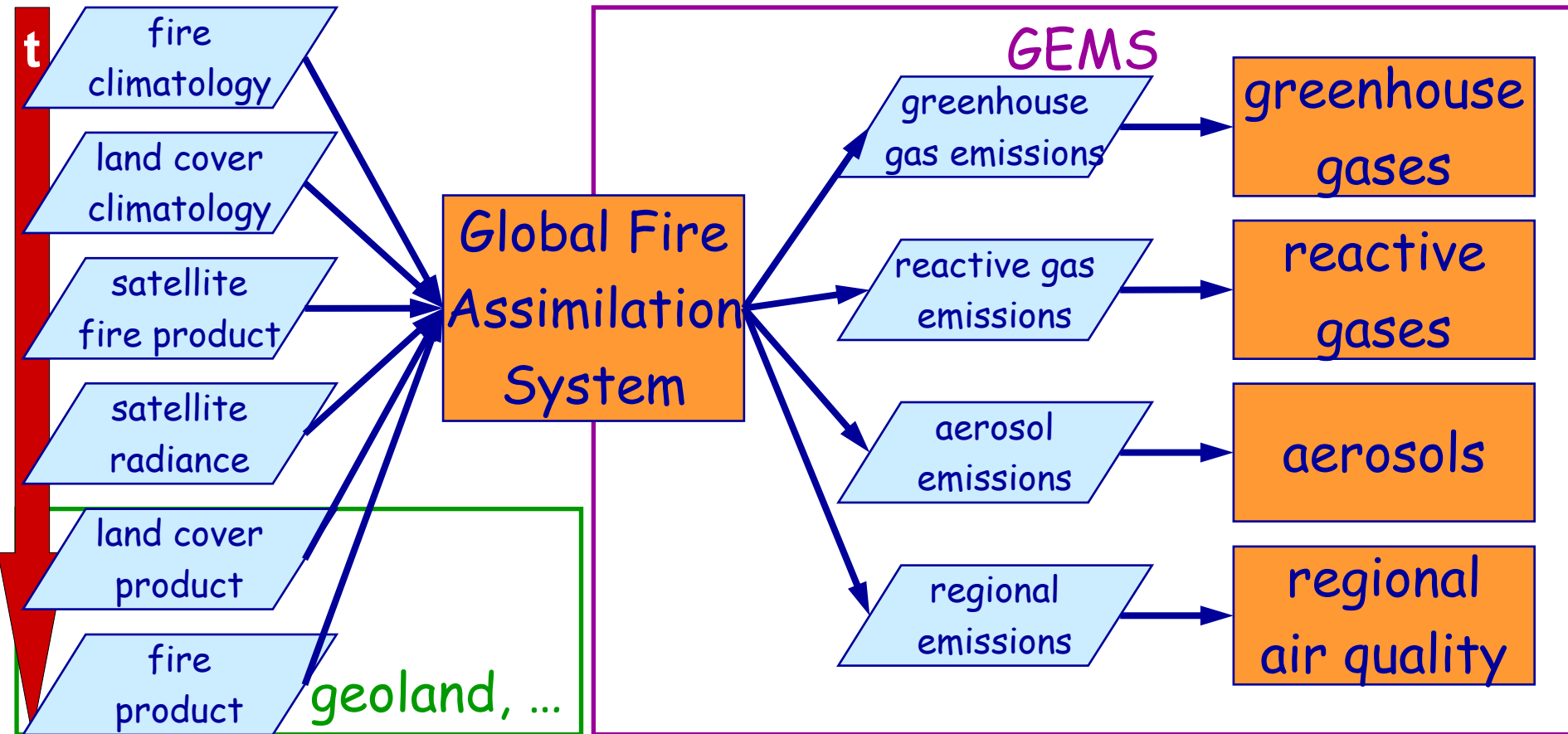
GRG: as it is

GHG, AER : diurnal cycle? day-to-day variability ?

RAQ: no specific requirements

injection height (2 \* PBL height ?)

# Proposal for extended reanalysis and operational system: Single Software Interface GFAS



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## general agreement within GEMS: GFAS is needed

- common interest with land-monitoring activities (GEOLAND)
- broad interest within climate research community for high quality fire assimilation system

## strategy

- one single interface for all GEMS subprojects
- continuous advancement with fire Earth obs. development
- implementation of basic system within GEMS and GMES projects
- further development needs to be funded in FP7

# Deliverables in GEMS

<b>Year 2</b> Sep 2006+12 mo	<ul style="list-style-type: none"><li>• reanalyses of 2003 for GHG, GRG, Aerosol</li><li>• global emissions for 2003 of correct order of magnitude</li><li>• inventory: GFED2</li></ul>
<b>Year 2.5-3.5</b> Nov 2007+ 12 mo	<ul style="list-style-type: none"><li>• Produce unified reanalyses for GHG, GRG, Aerosol</li></ul>
<b>Year 3.5 - 4</b> Nov 2008+ 6 mo	<ul style="list-style-type: none"><li>• Final pre-operational trials</li></ul>
<b>Year 5 -</b> 2009 -	<ul style="list-style-type: none"><li>• operational phase</li></ul>