

BONGO
Biogas and Others in Natural Gas Operations

A GERG project under development

WGC Amsterdam, June 8th 2006
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What is biogas (and others..)?

- Gas from biomass
- Produced by anaerobic digestion or gasification



- Reduces emission greenhouse gases
- Increases security of supply
- Renewable energy

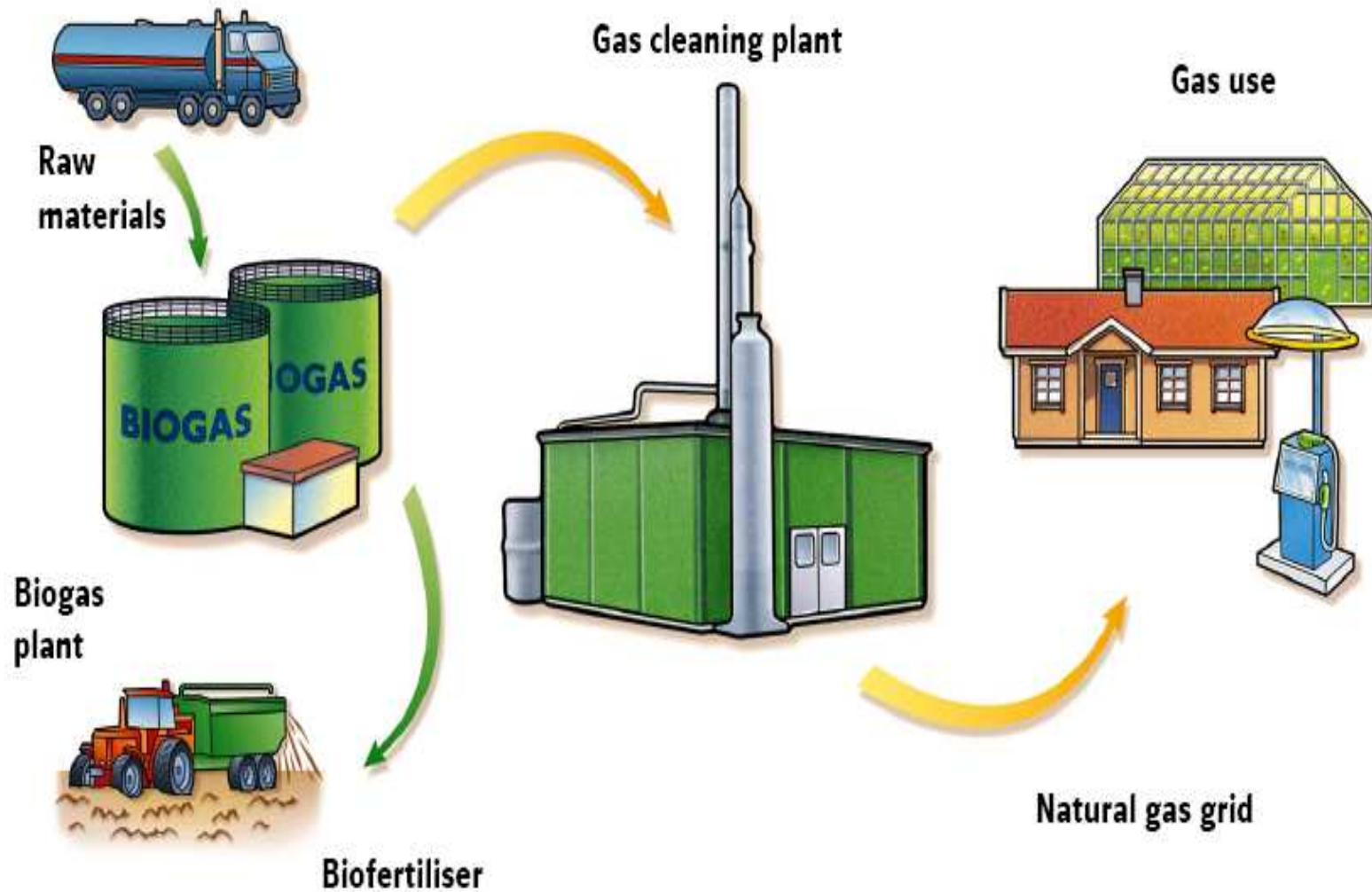
Why inject biogas in the natural gas grid?

- Composition comparable to natural gas
- Renewable alternative to natural gas
- Can be produced locally in significant volumes
- Legal framework **EU Directive 2003/55/EC**:
“..biogas and gas from biomass or other types of gas are granted non-discriminatory access to the gas-system..”



Prepare for injection of biogas in the existing natural gas grid

BONGO: Biogas and Others in Natural Gas Operations



But..

Composition of biogas may differ from those of natural gas in minor components

- In order to be able to use biogas widely, the consequences for use, health, safety and pipeline integrity aspects related with the addition of biogas to natural gas need to be addressed
- Start with quality requirements for natural gas and focus on the consequences of the *differences* between biogas and natural gas

Goal BONGO

Define the quality requirements under which biogas can be added to the natural gas grid

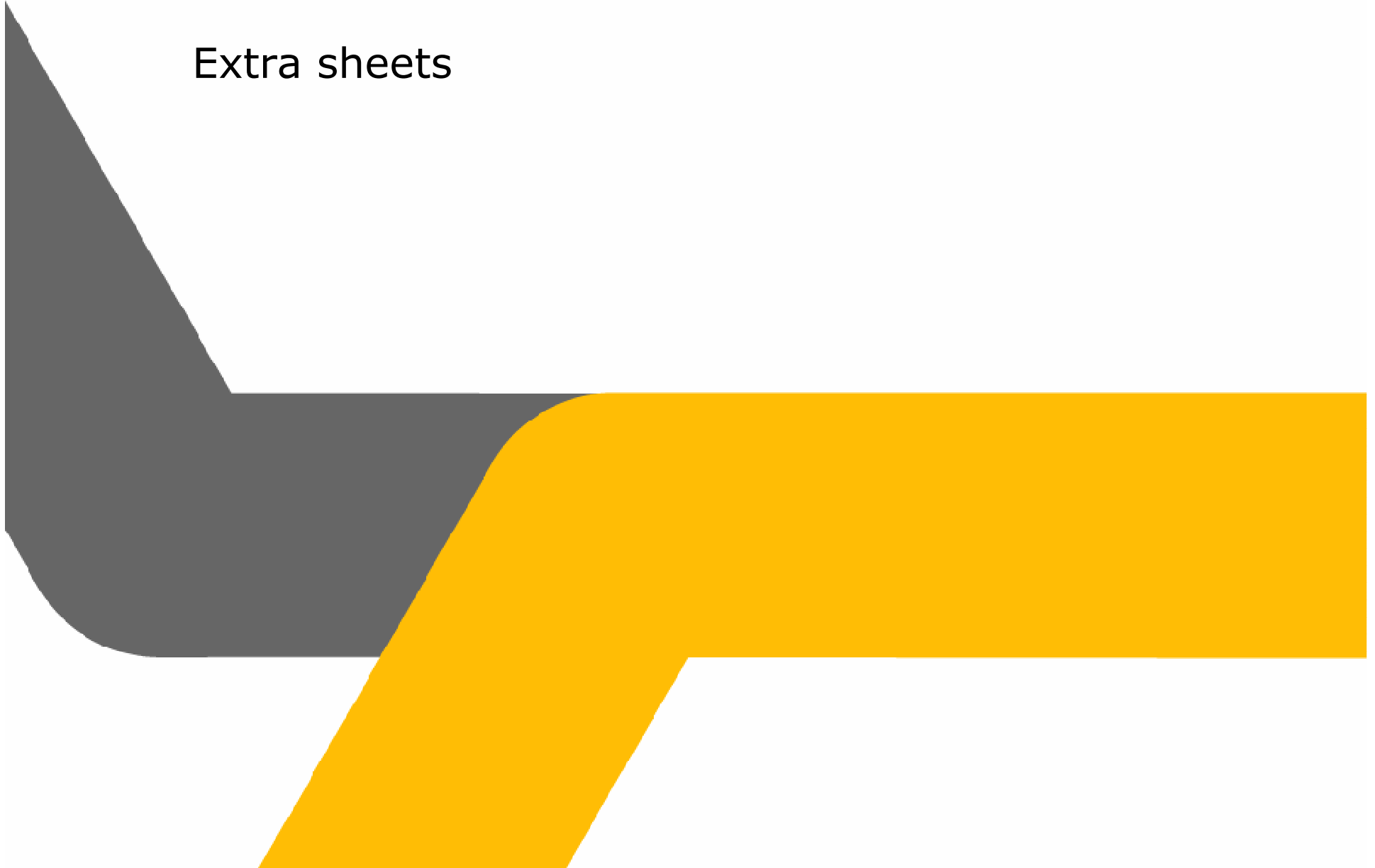
- BINGO will become the main European project, aiming at preparing the natural gas industry for biogas accommodation
- Ensurance on beforehand of a broad acceptance of results (GERG project, involvement Marcogaz, Eurogas, GIE, biogas producers)

Curious? Interested in participation?

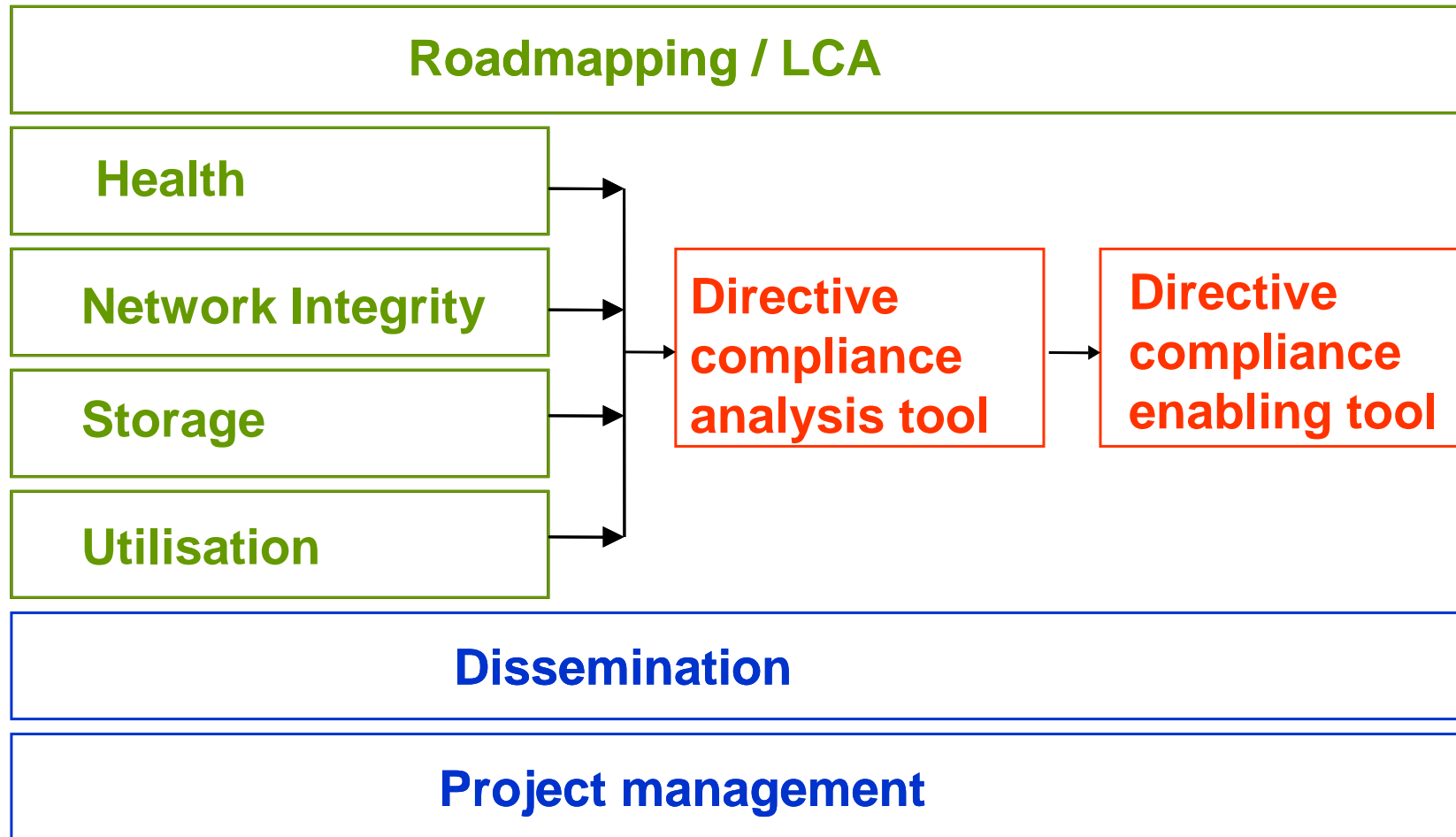
Set-up, planning, partners, financial aspects, and more details about the project..

Come and see our poster!

Extra sheets



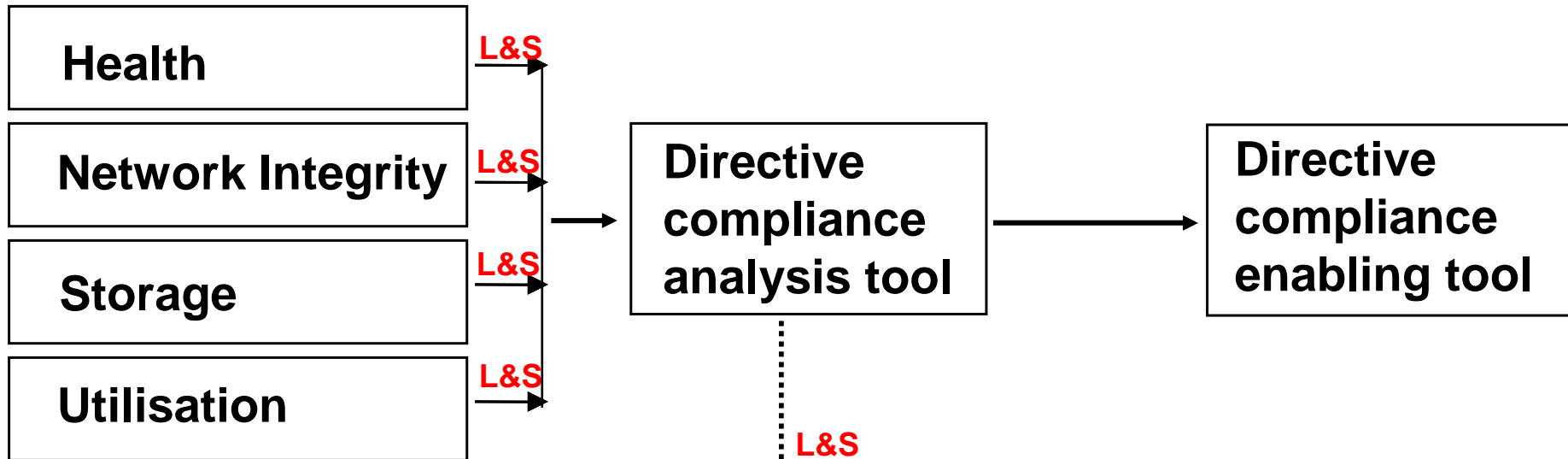
Approach BONGO: work packages



Approach BONGO WP

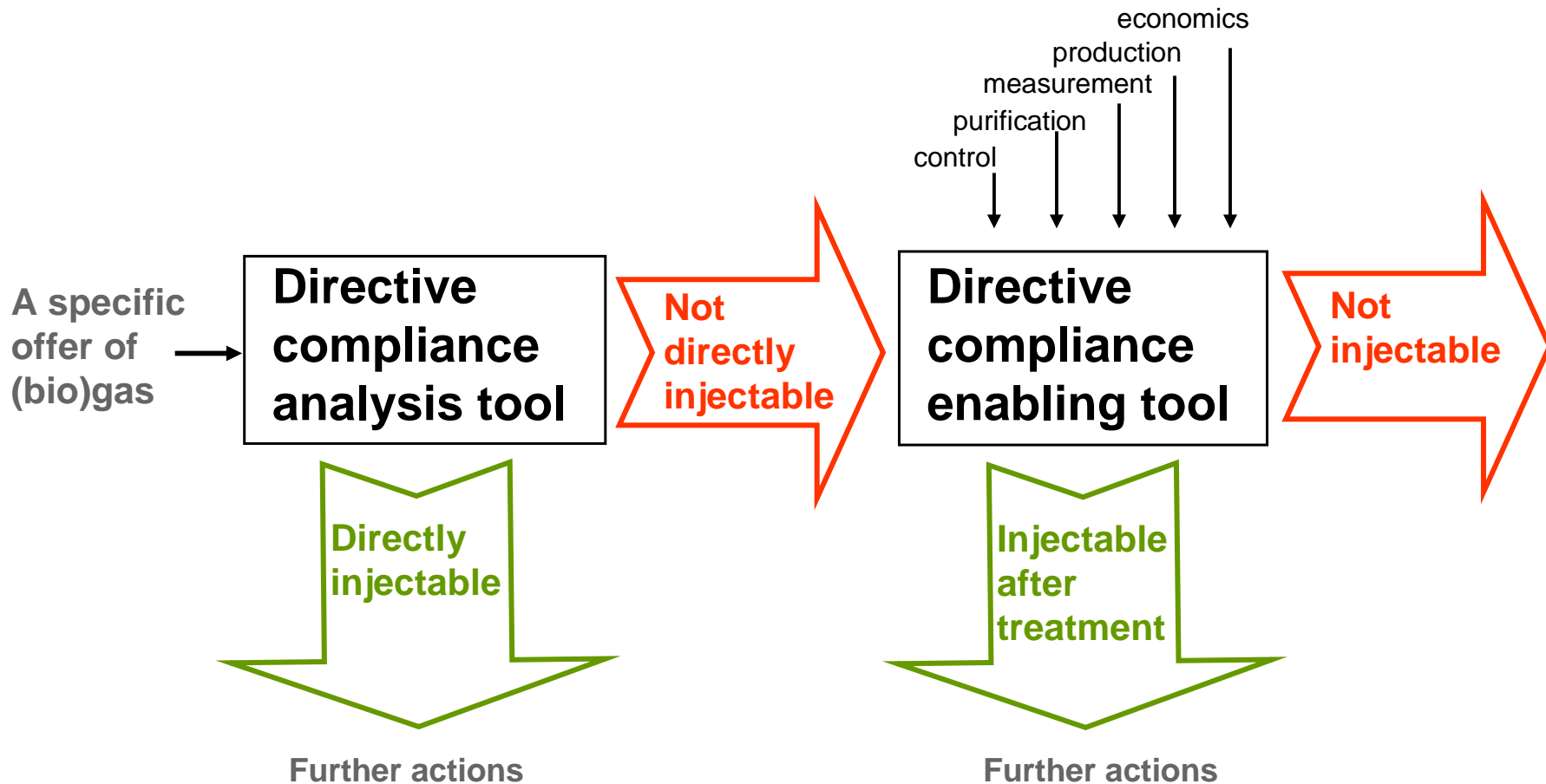
BONGO

For every component in NC gas:
Limits & Sensitivity (L&S) with respect to NG



Standardization

Approach BONGO WP



Work Packages and Partners

WP	Topic	Leader	Participants
1	Health	RIVM? TNO?	Synergrid, ISQ, University of Warwick, EnergieNed
2	Road Mapping	North Energy	ISQ, NTUA, Advantica
3	Network integrity	Gasunie? Transco?	DEPA, Synergrid, Gasunie, Advantica/Transco, ISQ, Gas Natural, DGC, NTUA, SVGW, Gaz de France, EnergieNed
4	Storage Integrity	DBI	
5	Utilisation	Gasunie?	ISQ, Gas Natural, DGC, NTUA, DEPA, Synergrid, Advantica, SVGW, University of Warwick, Gaz de France, EnergieNed, TAGUSGas (Por), Naturgas Fyn (Den)?
6	Directive Compliance Analysis Tool	DVGW	NTUA, DEPA, Advantica, University of Warwick, SVGW, EnergieNed
7	Directive Compliance Enabling Tool	Un of Warwick	NTUA, DEPA, SVGW
8	Dissemination	Exergia	North Energy, NTUA, DEPA, GERG, Marcogaz
	Project Management	Gasunie	WP Leaders

Planning and financial aspects

BONGO

EU funding in 7th
Framework Programme
(FP7)

Expected total project
budget: order of 10M€



Planning and financial aspects

BINGO

Short term actions
Funding in National Programs

Prepare BONGO proposal

BONGO

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