

# THE STRATEGIC DEVELOPMENT COMMITTEE AN INITIATIVE OF SFGP

Jérôme GOSSET, EVP Business Unit Hydrogen & Storage, AREVA group Presentation to EFCE Forum, Prague August 25<sup>th</sup>, 2012

SDC known as COS in French



- Objectives of the SDC initiative
- Managing the initiative
- Outcome and Results
- Ongoing actions
- Takeaways for EFCE



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## OBJECTIVES OF THE SDC



(1/2)

- SFGP's board members from worldwide companies involved in Chemicals, Energy, Environment, Pharmacy acknowledged that the fast development of new activities has created a need to
  - Review SFGP's mission and management
  - Reconsider Chemical Engineering role in XXI<sup>st</sup> century society
- Board structure reflects Jacques Villermaux's vision, with people half from academia and half from Industry
  - TOTAL, SOLVAY-RHODIA, ARKEMA, SUEZ, AREVA, SANOFI, Air Liquide, EdF, VEOLIA
  - CNRS, CEA, IFP-EN, ICEEL, LSGC Toulouse, ParisTech, LRGP Nancy, INFRIS

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- SFGP board accepted President Dal Pont's SDC initiative and gave the following objectives
  - Reflect on the role of a learned society in XXI<sup>st</sup> century
  - Describe a common vision for the future
  - Propose objectives that SFGP could pursue in the coming years
  - Initiate some actions
- The board requested to manage the SDC under strong ethical principles, without favoring the interests of a particular entity



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### WORKING PROCESS PROPOSAL (FEB. 2010)



(1/2)

- Initially, a series of 7 meetings was planned to discuss the following topics
  - Discuss the process that the SDC would follow and the people to be involved
  - A vision for the Process Industry and Chemical Engineering from 2010 to 2050
  - Deriving a vision for France (we are the SFGP)
  - Industry, Academia and Public bodies expectations relative to a learned society
  - Defining objectives and a targeted position for SFGP: what do we want to contribute to?
  - Visibility and Interfaces of the SFGP (to clusters, Europe, State bodies, etc.)
  - Internal Organization and policies

## WORKING PROCESS PROPOSAL (FEB. 2010)



(2/2)

- The aim was to produce a few pages paper after each meeting
- The aim was to complete the process within a year

- Composition of the SDC
  - Key professionals from SFGP
  - Government, Academia and Industry Representatives

## HOW IT DID UNFOLD: 2 YEARS OF A COLLABORATIVE PROCESS



(1/2)

- It has been initiated as a top down process
  - A few people group making initial proposals
  - After a few meetings with qualified individuals
- It then continued as a sharing and discussion process
  - Involvement of the Chairs and members of the 16 SFGP WGs
  - WGs effectively analyzed the documents and made recommendations and contributions
- With two large events to discuss broadly and validate the conclusions
  - Gathering the SDC group and the whole SFGP Scientific Committee
  - About 30 people participated in theses events, representing about
     200 contributors in the process

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## HOW IT DID UNFOLD: 2 YEARS OF A COLLABORATIVE PROCESS



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- The whole process has been monitored by the Supervisory Board
  - Informed on a timely basis

#### KEY SUCCESSS FACTORS

- Dedication from the Chair of the SDC to produce high quality documents
- An animation group to collect contributions rather than a group "delivering the truth"
- Establishing a very transverse discussion within SFGP
- It eventually turned out as a bottom-up exercise



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### **OUTCOME & RESULTS**

- A vision paper
  - A « Vision 2050 » document
    - Not too long 7 pages
    - Summarized in an article for PROCÉDIQUE in 2011, and in 2012
  - A draft paper for France
- A series of practical propositions
  - A sense of purpose and a motto
  - A strategic action plan, presented to the board in Feb 2012
  - Limited by resources and organizational limitations of the SFGP
- A few action items to pursue with



### THE SFGP 2050 VISION

- The key drivers
  - Increasing population and life quality standards Vs limited resources
  - A need for a new production paradigm
- Diversity and Unity of Process Industry and Chemical Engineering
  - What is common to all these industries
  - Why is it relevant to approach them in a unified manner
- What the Process Industry should be aiming at
  - New consumption needs new production
  - Aiming at improving the quality of life of every stakeholder
- Some required scientific & technological breakthroughs
  - Academic formulation of what is needed to build the desired industry

## A SENSE OF PURPOSE & A MOTTO COLLECTIVE INTELLIGENCE FOR A SUSTAINABLE INDUSTRY



- A learned society, SFGP can not content itself with circulating knowledge, as Internet and electronic publishing are faster
- Such a society has to <u>metabolize knowledge</u>, in order to produce analyses, recommendations, etc.
  - → The collective intelligence
- There is no such thing as a non oriented analyses. The way we metabolize should be driven by our long term vision
  - The promotion and development of a sustainable French transformation process industry
  - Better production for better consumption
    - **→** The sustainable industry

## THE STRATEGIC ACTION PLAN



- A attempt to organize the practical ideas that popped up during discussions
  - Serving our members
    - Develop our membership base to have a more representative voice
    - Bring recognition and visibility to members while respecting high ethical standards
    - Develop our presence on social networks
  - Reflecting on Chemical Engineering
    - Shift key discussions in the board from operational/practical to strategic/fundamental
    - Organize discussions within our community to keep elaborating our vision
  - Fostering public debates on the creation of a sustainable process industry
    - Disseminate our vision and messages among specialists
    - Be very active and present in institutional networks
    - Debate with society at large
    - Participate into International actions and networks
  - Organize SFGP accordingly
    - Update the statutes and missions of the different bodies within SFGP
    - Upgrade the quality of our communication
    - Nomination of a Guarantor to ensure the follow-up of SDC's recommendations within the WGs

## THE INITIATIVE PRODUCED UNANTICIPATED BONUSES



- A few additional outcomes were brought by the SDC initiative
  - Reviving internal discussions between industry and academia
  - Ideas on how to improve our internal statutes
    - Better and clearer vision of roles of SFGP board and the scientific committee
  - SFGP has found that new WGs are needed
    - Innovation, Industrial systems, Product Engineering, LCA & materials recycling
- SDC has already influenced deeply SFGP
  - Our national Congress GP 2013 that will be held in Lyon October
     2013 has already implemented SDC recommendations
  - GP 2013 paves the way in implementing the renewal of SFGP, by aligning congress organization with our vision EFCE Forum, Prague



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## DISSEMINATE OUR VISION THROUGH TARGETED MEETINGS



- Meetings with key opinion leaders, decision makers, stakeholders
  - To promote our vision
  - To be active in institutional networks
  - To keep on complementing our vision
  - Examples: ANR, MPs, Water agencies, Key engineering schools heads
- Our Approach
  - Ambitious target: 1/month
  - Adapt SFGP spokespersons for each visit
  - Propose a specific paper as a support to discussion
  - Invite VIPs to our key congress

### ENGAGING WITH EXTERNAL STAKEHOLDERS



- Use large events to pursue our strategic objectives beyond scientific exchanges
  - Promote SFGP and the Chemical Engineering to decision makers
  - Promote the importance of the related industry to decision makers
  - Give visibility to the community and attract students and workers
- Next major event is SFGP 2013 national congress in Lyon
  - Four actions are currently pursued
    - Organize two round tables with decision makers
    - Press meeting
    - Disseminate a Congress conclusions leaflet to leverage the event investment
    - Produce a 3 min video to relate congress key moments and outcomes



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### TAKEAWAYS FOR EFCE



(1/2)

- Launching an SDC/Vision collaborative process generates tremendous impetus within the community
  - It creates ownership on a global common project
  - It creates a huge sense of purpose, disseminated through the entire industry and academic Chemical Engineering community
  - Working at European scale, the potential of 100,000 members can not be ignored
- Although SFGP only touched the topic at this stage, SFGP is convinced social networks will have a key role in the future for learned societies, in particular at European scale
  - To help promote messages and values
  - To metabolize quicker and better information
  - To interact with society at large scale

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# An industry game changer for spurring the revision of Chemical Engineering to fulfill the needs of the XXI<sup>st</sup> century society is required

- SFGP observed that French society needs to recognize Chemical Engineering as one of the major tool to achieve its sustainable development goals
- SFGP identified the need for a continuous dialogue with leaders & decision makers

#### What about the European level?



### **THANK YOU**