

# Dolcera's Poster on Industrial Biotechnology

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## Using Dashboard for innovation in Industrial Biotechnology

There is a need for information visualization tools that can map thousands of patents, technical literature etc. in Industrial Biotechnology world to fully understand the universe of organisms, enzymes, feedstock, products and by-products and the inter-relationships between them.

To solve the above problem, Dolcera builds customized dashboards, with customized categorization, for Industrial biotechnology companies helping them map innovation to the following basic variables:

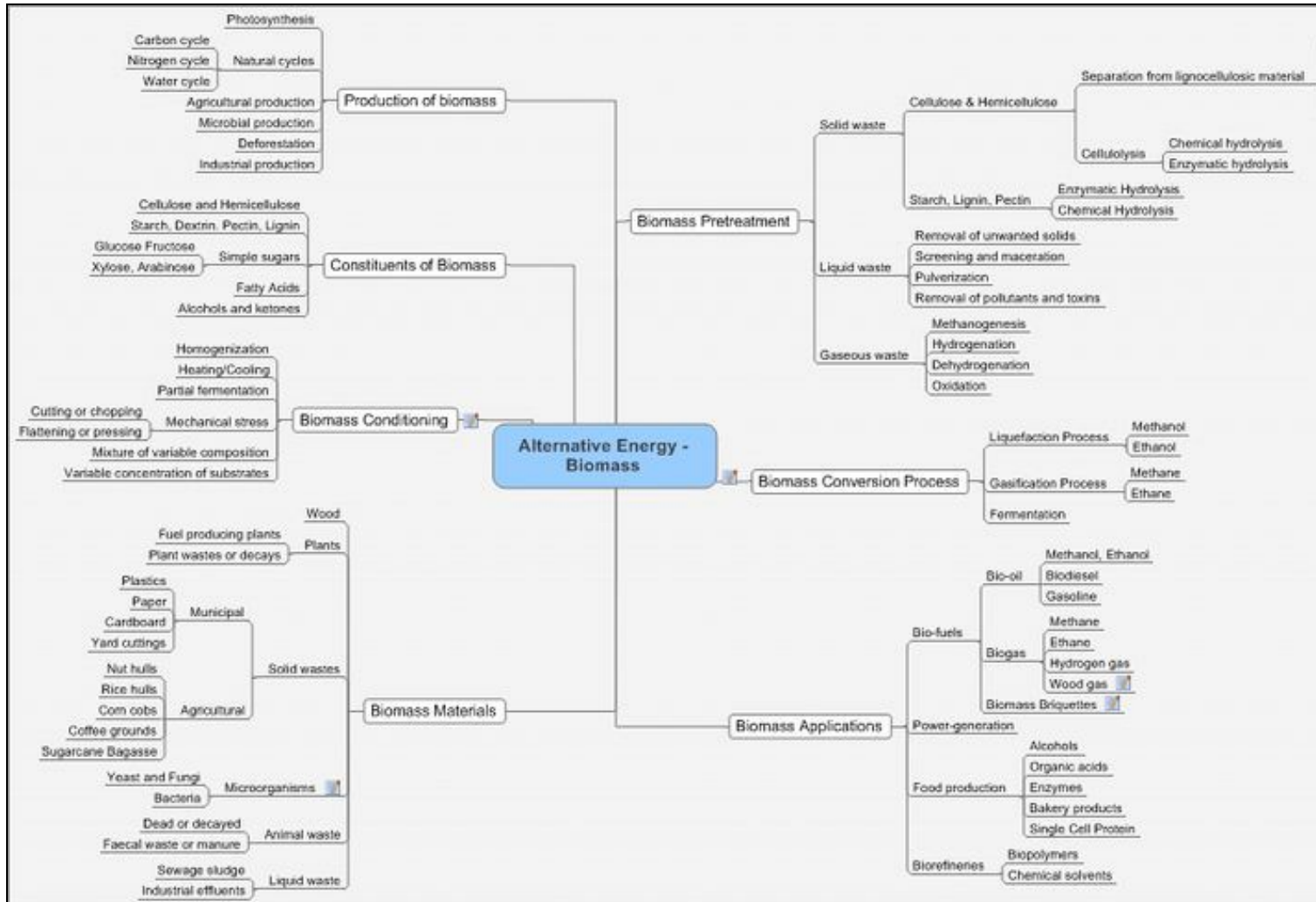
- Various feedstock
- Pre-treatment methods for feedstock
- A variety of enzymes, bacteria, fungi, yeast or a modified version of any of these that feed on feedstock
- Output or products that are obtained when the enzymes or bacteria or fungi or yeast feed on these feedstock.

Such detailed mapping of patents+technical literature activity to the above categories with the dashboard visualization tool helps companies map the entire technology landscape.

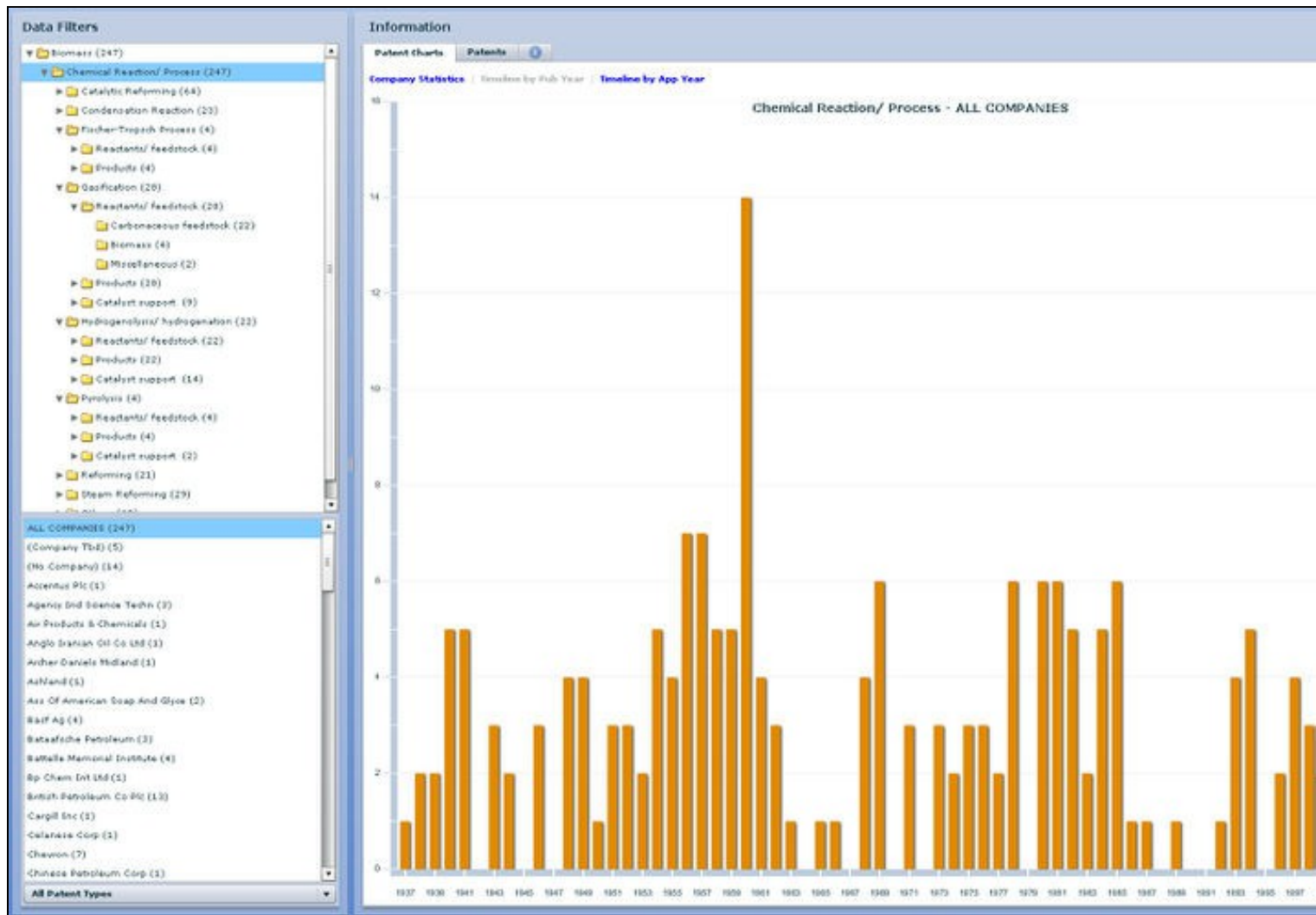
We believe that this process of mapping the technology landscape for biotechnology, albeit customized for your needs, helps companies identify white spaces that they can potentially exploit for research or patenting opportunities.

## Dolcera Innovation process

### Step 1 - Detailed customized categorization



### Step 2 - Assigning analyzed technical documents to these categories



Step 3 - Deep dive analysis into the technical documents to identify white spaces

- Dashboard Screenshot 2

**Data Filters**

- Biomass (247)
  - Chemical Reaction/ Process (247)
    - Catalytic Reforming (64)
    - Condensation Reaction (22)
    - Fischer-Tropsch Process (4)
    - Reactants/ Feedstock (4)
    - Products (4)
    - Gasification (20)
      - Reactants/ Feedstock (28)
        - Carbonaceous Feedstock (22)
        - Biomass (4)
        - Miscellaneous (2)
      - Products (20)
      - Catalyst support (9)
    - Hydrogenation/ Hydrogenation (22)
      - Reactants/ Feedstock (22)
      - Products (22)
      - Catalyst support (14)
    - Pyrolysis (4)
      - Reactants/ Feedstock (4)
      - Products (4)
      - Catalyst support (3)
    - Reforming (21)
    - Steam Reforming (29)

**Information**

Patent Charts Patents

Publication	Title
US20050123472A1	Hydrogen production
US5651953A	Method of producing hydrogen from biomass
0823101	
US520070	
0847934	
EP103160A1	<b>Catalytic upgrading of reduced crudes and residual oils with a coke selective catalyst.</b>
0849021	
0849941	
US53068	
US56168	
0876333	
W02007	
0878278	
0880917	
0882247	
US56168	
US64797	
US20030	

US20050123472A1  
Hydrogen production

US Class (patent)  
IPC Class (patent)

**Abstract:**  
Hydrogen is generated from a mixture of feedstocks to generate one stream of hydrogen gas and a stream of water. The resulting stream of hydrogen gas is then used at an industrial site to generate hydrogen gas.

**EP 0 103 160 A1**

Europäisches Patentamt  
European Patent Office  
Office européen des brevets

Publication number: **0 103 160 A1**

EUROPEAN PATENT APPLICATION

Application number: 0209948  
Date of filing: 05.08.02

Pub. No.: C 10 G 69/04, C 10 G 11/05  
// 001J29/08, 001J29/38

Inventor: 0209948 05.08.02

Applicant: ARPLAND OIL, INC., P.O. Box 301, St. Louis, Missouri 63114 (US)

Attorney: Miller, Charles E., 200 Baltimore Drive, Ashland Kentucky 40101 (US)

Date of publication of application: 21.03.04  
Subclass: 0413

Designated Contracting States: AT BE DE FR GB IT NL SE

Representative: Borch, Gabriele, Dr.-Ing. et al., c/o Borch & Co. Patentanwälte, D-69126 Heidelberg (DE)

**Catalytic upgrading of reduced crudes and residual oils with a coke selective catalyst.**

The present invention is concerned with upgrading reduced crudes and residual oils with a coke selective hydrogen stable catalyst comprising at least 60 weight percent of alumina and 40 weight percent of an acidic zeolite and effecting regeneration thereof in an oxygen rich atmosphere under CO semireactive conditions. A composition of catalyst is added to generate metal compounds. The regeneration of the catalyst is effected to retain up to 8.25 weight percent carbon and heat balance of the operation is limited as a function of metal promoted CO burn within a narrow fluid bed of catalyst being regenerated.

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