

# Dolcera's Poster on Industrial Biotechnology

## Contents

- 1 Using Dashboard for innovation in Industrial Biotechnology
- 2 Dolcera Innovation process
- 3 Like this report?
- 4 Contact Dolcera

## 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:

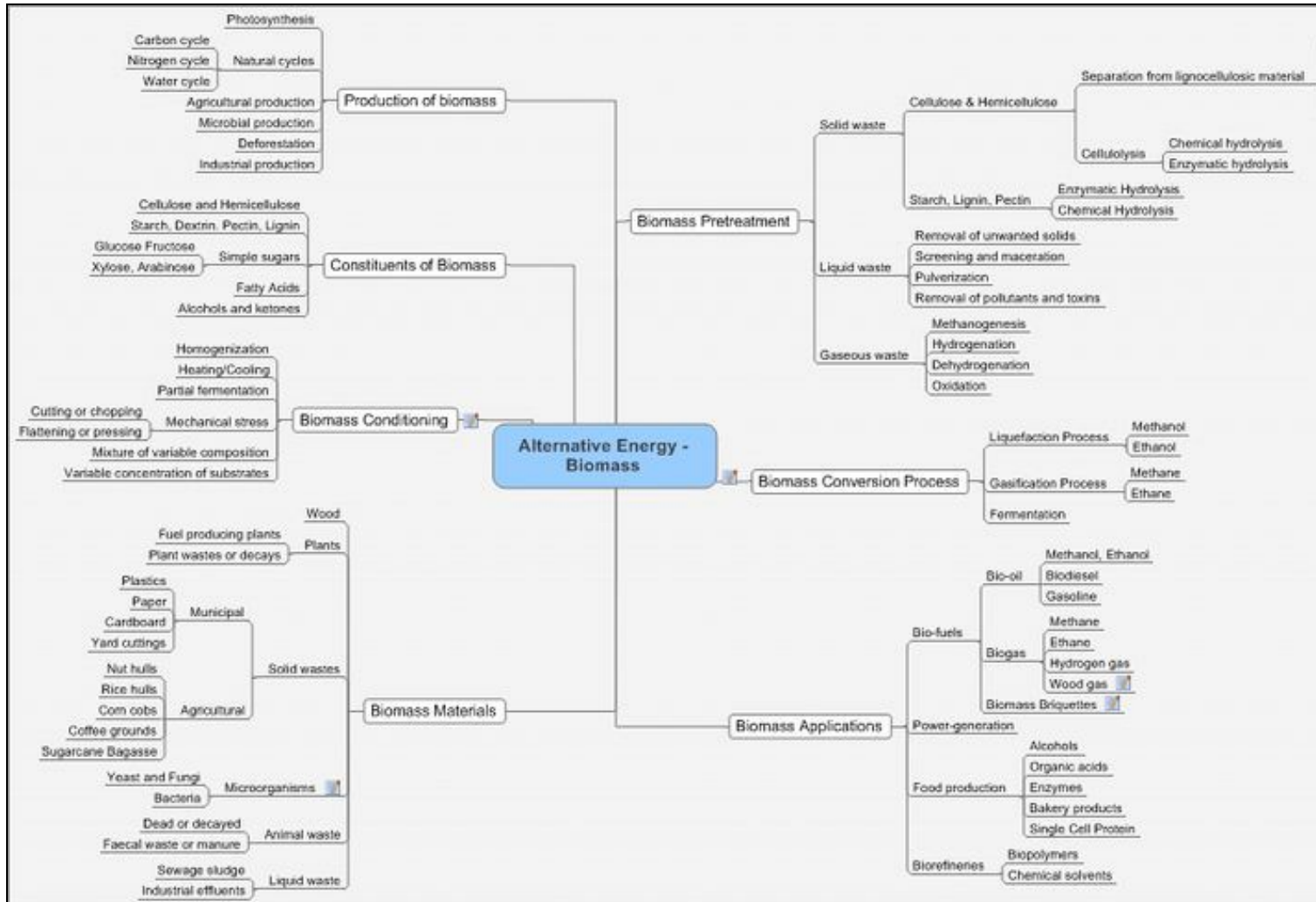
- Various feedstock
- Pre-treatment methods for feedstock
- A variety of enzymes, bacteria, fungi, yeast or a modified version of any of these that feed on feedstock
- Output or products that are obtained when the enzymes or bacteria or fungi or yeast feed on these feedstock.

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

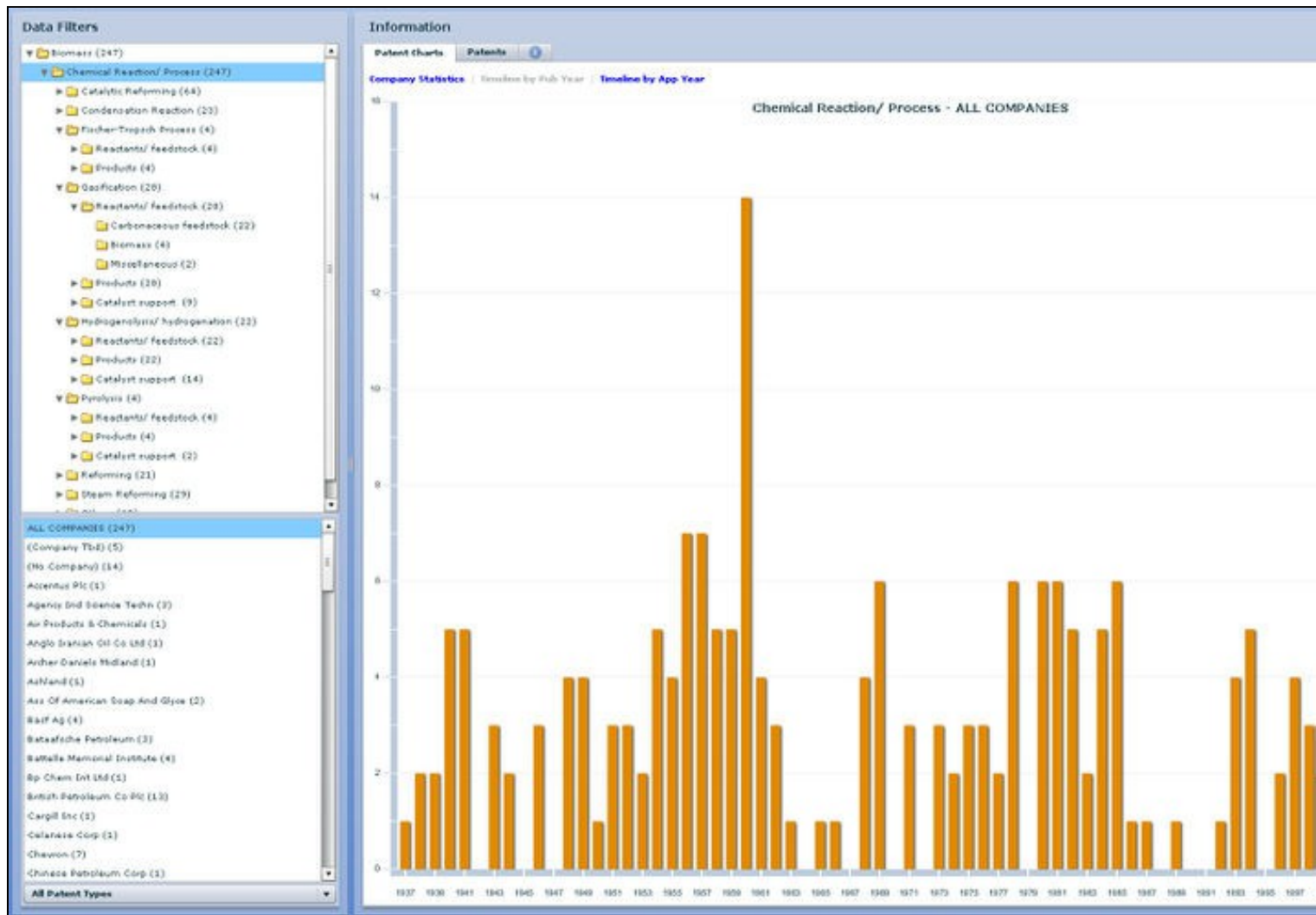
We believe that this process of mapping the technology landscape for biotechnology, albeit customized for your needs, helps companies identify white spaces that they can potentially exploit for research or patenting opportunities.

## 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

US520020 Catalytic upgrading of reduced

0847934 cokes and residual oils with a

US20070 coke selective catalyst.

EP103160A1

US2005012 Hydrogen pr

US Class (p

IPC Class (p

**Abstract:**  
Hydrogen is a mixture of f generate one subjecting the then to a wa The resulting selective oxid diluting the g hydrogen ma used at an of

European Patent Office  
Office européen des brevets

Publication number: **0 103 160 A1**

EUROPEAN PATENT APPLICATION

Application number: EP030648

Inventor: C 10 G 69/04, C 10 G 11/05 // B01J20/08, B01J29/38

Date of filing: 05.08.03

Priority: 02.09.02 US 02870

Applicant: AEP-LAND OIL, INC., P.O. Box 301, St. Louis, Kentucky 40114 (US)

Inventor: Miller, Charles E., 200 Balafoxie Drive, Ashland Kentucky 40017 (US); Weaver, William E., P.O. Box 949F, Ashland Kentucky 40017 (US)

Date of publication of application: 21.03.04 Bulletin 04/12

Designated Contracting States: AT BE DE FR GB GR HU IE

Classification: C 10 G 69/04, C 10 G 11/05 // B01J20/08, B01J29/38

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

The present invention is concerned with upgrading reduced cokes to gasoline products with a coke selective hydrogen stable zeolite molecular sieve (SMSZ) comprising of least 60 weight percent of alumina and pore width range in an acidic matrix and affecting regeneration thereof in an oxygen rich atmosphere under CO temperature conditions. A composition of zeolites is added to generate small 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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Contact Dolcera

Samir Raiyani  
Email: [info@dolcera.com](mailto:info@dolcera.com)  
Phone: +1-650-269-7952