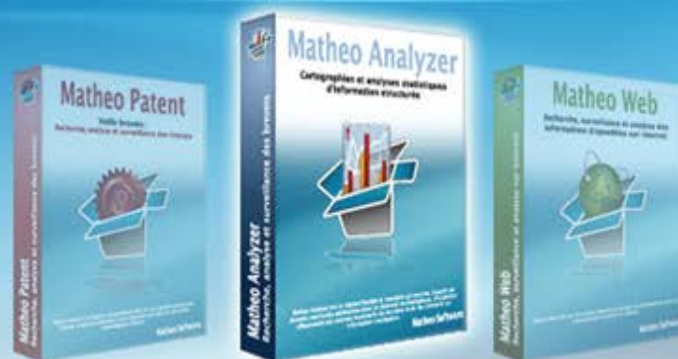


Matheo Analyzer

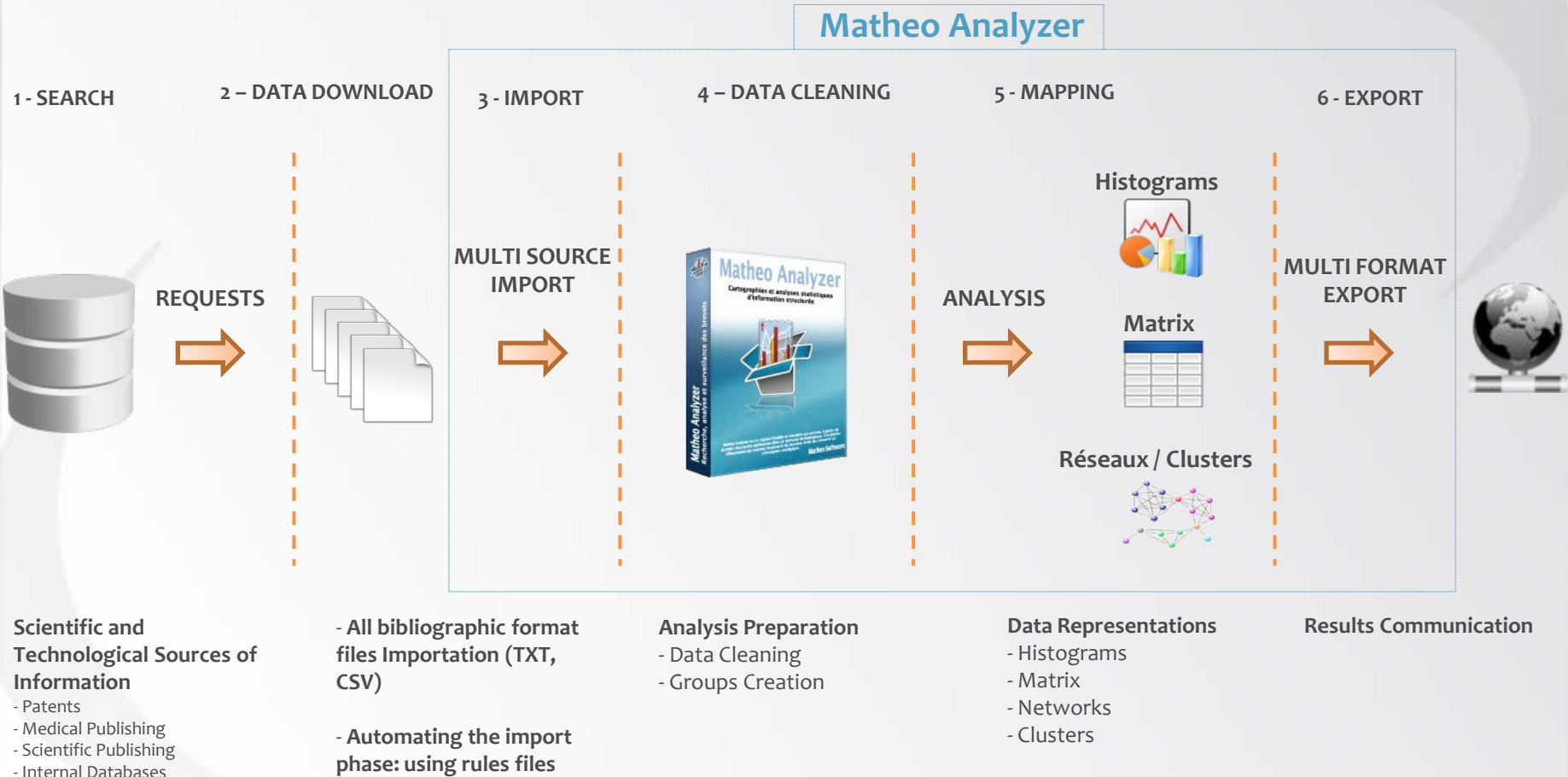
Database Analysis and Information Mapping



- ▶ **Matheo Analyzer** is a **decision making software** which permits to get
 - ▶ dashboard
 - ▶ information maps
 - ▶ syntheses
 - ▶ Indicatorsgenerated from large sets of information.

- ▶ **Matheo Analyzer** works from a set of **structured information** which come from large **specialized bases** (free such as some patent databases or PubMed, or commercial through providers such like Questel-Orbit, Dialog, STN, ...) or from **company homemade databases**.

- ▶ Usually, it is used by **experts and analysts on patents and scientific papers** to
 - ▶ make maps on main players and technologies
 - ▶ detect trends
 - ▶ assure a scientific, strategic, commercial and competitiveness monitoring



▶ Importation Information

- ▶ Importation Assistant
- ▶ Possibilities to use importation pre-established rules
- ▶ Multi source import
- ▶ Information fine extraction

▶ Data Preparation

- ▶ Subset data creation
- ▶ Automatic cleaning and imported data correction
- ▶ Concept extraction

▶ Graphic representations, information mapping

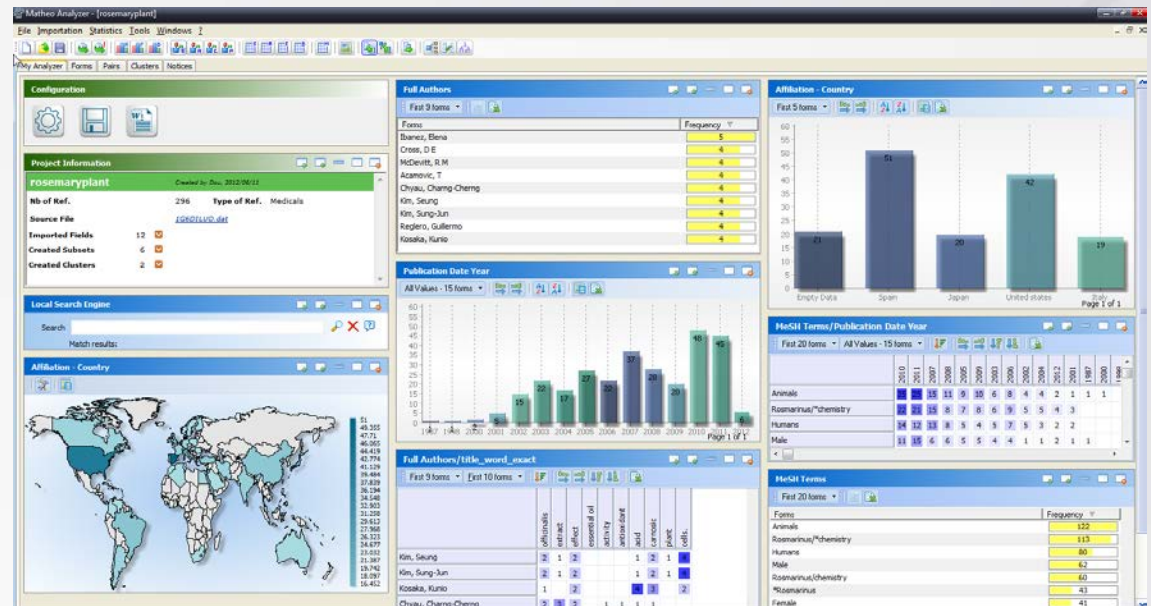
- ▶ Histograms
- ▶ Matrix
- ▶ Networks
- ▶ Insertion of blocking elements

▶ Clustering

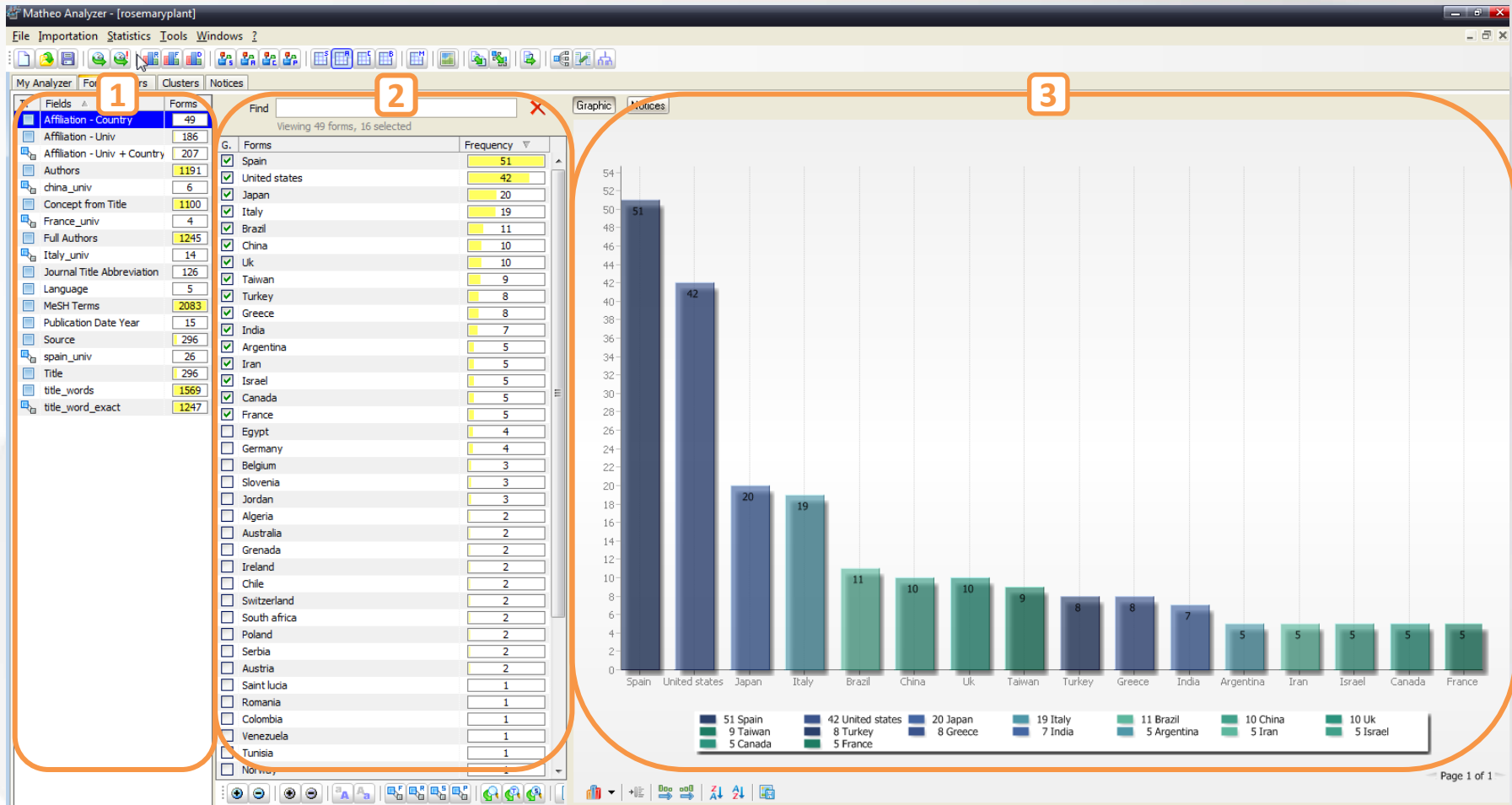
- ▶ K-Means++
- ▶ By propagation
- ▶ By dendrogram

From 4.0 version, Matheo Analyzer proposes a customizable dashboard which permits to display and configure the most significant analyses.

- Interface configurable
- Contenu des analyses paramétrable
- Moteur de recherche sur le texte intégral



A simple and friendly interface



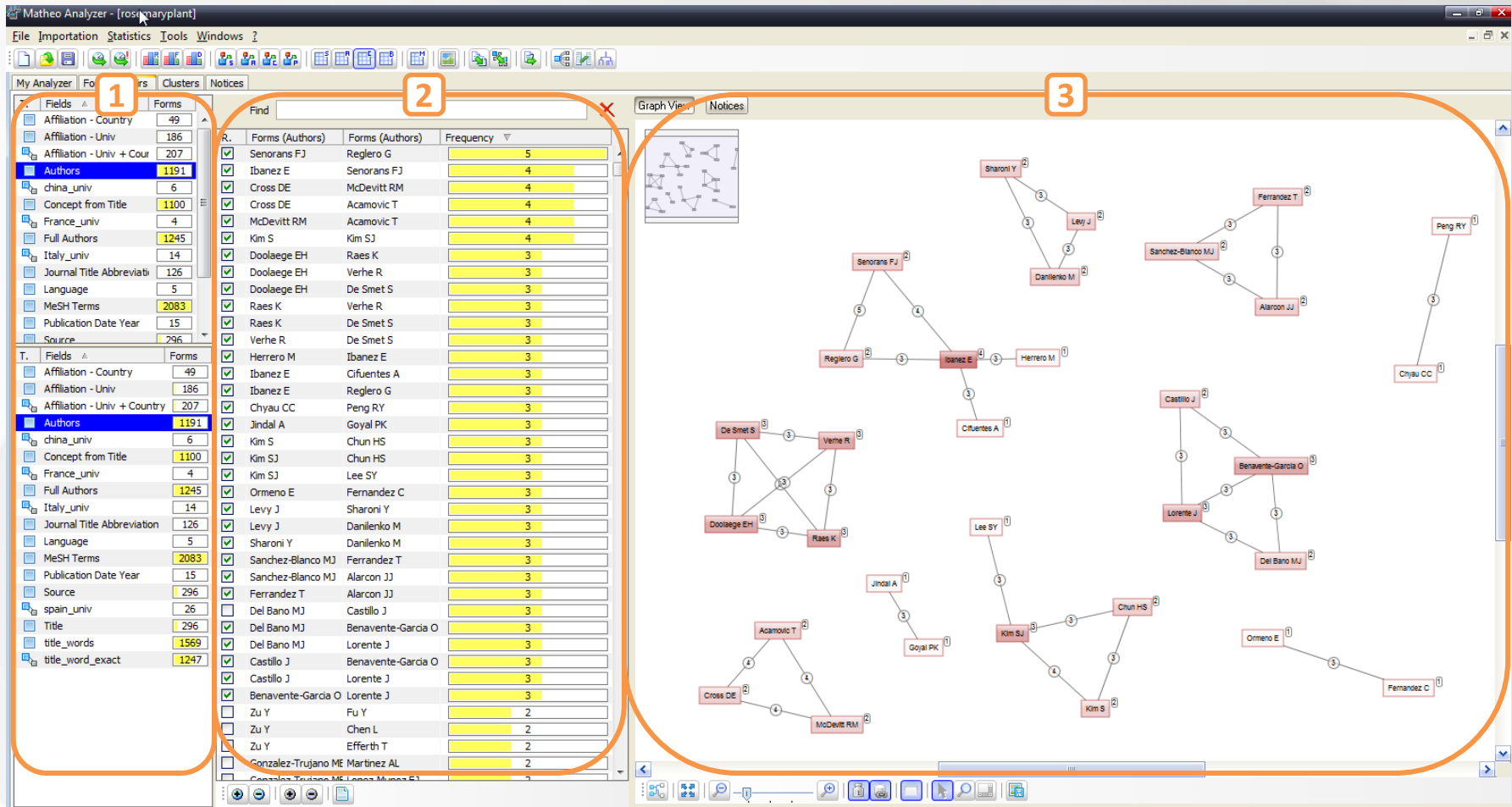
The screenshot shows the Matheo Analyzer interface with three numbered callouts:

- 1**: Points to the 'Fields' list on the left, showing various attributes like 'Affiliation - Country' (49), 'Affiliation - Univ' (186), etc.
- 2**: Points to the 'Forms' list in the center, showing a table of selected forms and their frequencies.
- 3**: Points to a bar chart on the right that visualizes the data from the selected forms.

Form	Frequency
Spain	51
United states	42
Japan	20
Italy	19
Brazil	11
China	10
Uk	10
Taiwan	9
Turkey	8
Greece	8
India	7
Argentina	5
Iran	5
Israel	5
Canada	5
France	5
Taiwan	9
Turkey	8
Greece	8
India	7
Argentina	5
Iran	5
Israel	5
Canada	5
France	5

- 1** Complete List of the Imported Fields and number of occurrences (forms)
- 2** Contents of selected fields in the list of forms and frequencies
- 3** Dynamic Graph of selected forms

Pairs representation



The screenshot shows the Matheo Analyzer interface with three main components highlighted by orange boxes and numbered 1, 2, and 3.

1 Complete List of the Imported Fields and number of occurrences

Fields	Forms
Affiliation - Country	49
Affiliation - Univ	186
Affiliation - Univ + Cour	207
Authors	1191
china_univ	6
Concept from Title	1100
France_univ	4
Full Authors	1245
Italy_univ	14
Journal Title Abbreviati	126
Language	5
MeSH Terms	2083
Publication Date Year	15
Source	296
T. Fields	Forms
Affiliation - Country	49
Affiliation - Univ	186
Affiliation - Univ + Country	207
Authors	1191
china_univ	6
Concept from Title	1100
France_univ	4
Full Authors	1245
Italy_univ	14
Journal Title Abbreviation	126
Language	5
MeSH Terms	2083
Publication Date Year	15
Source	296
spain_univ	26
Title	296
title_words_exact	1569
title_word_exact	1247

2 Pairs List and frequencies

R.	Forms (Authors)	Forms (Authors)	Frequency
<input checked="" type="checkbox"/>	Senorans FJ	Reglero G	5
<input checked="" type="checkbox"/>	Ibanez E	Senorans FJ	4
<input checked="" type="checkbox"/>	Cross DE	McDevitt RM	4
<input checked="" type="checkbox"/>	Cross DE	Acamovic T	4
<input checked="" type="checkbox"/>	McDevitt RM	Acamovic T	4
<input checked="" type="checkbox"/>	Kim S	Kim SJ	4
<input checked="" type="checkbox"/>	Doolaege EH	Raes K	3
<input checked="" type="checkbox"/>	Doolaege EH	Verhe R	3
<input checked="" type="checkbox"/>	Doolaege EH	De Smet S	3
<input checked="" type="checkbox"/>	Raes K	Verhe R	3
<input checked="" type="checkbox"/>	Raes K	De Smet S	3
<input checked="" type="checkbox"/>	Verhe R	De Smet S	3
<input checked="" type="checkbox"/>	Herrero M	Ibanez E	3
<input checked="" type="checkbox"/>	Ibanez E	Cifuentes A	3
<input checked="" type="checkbox"/>	Ibanez E	Reglero G	3
<input checked="" type="checkbox"/>	Chyau CC	Peng RY	3
<input checked="" type="checkbox"/>	Jindal A	Goyal PK	3
<input checked="" type="checkbox"/>	Kim S	Chun HS	3
<input checked="" type="checkbox"/>	Kim SJ	Chun HS	3
<input checked="" type="checkbox"/>	Kim SJ	Lee SY	3
<input checked="" type="checkbox"/>	Ormeno E	Fernandez C	3
<input checked="" type="checkbox"/>	Levy J	Sharoni Y	3
<input checked="" type="checkbox"/>	Levy J	Danilenko M	3
<input checked="" type="checkbox"/>	Sharoni Y	Danilenko M	3
<input checked="" type="checkbox"/>	Sanchez-Blanco MJ	Ferrandez T	3
<input checked="" type="checkbox"/>	Sanchez-Blanco MJ	Alarcon JJ	3
<input checked="" type="checkbox"/>	Ferrandez T	Alarcon JJ	3
<input checked="" type="checkbox"/>	Del Bano MJ	Castillo J	3
<input checked="" type="checkbox"/>	Del Bano MJ	Benavente-Garcia O	3
<input checked="" type="checkbox"/>	Del Bano MJ	Lorente J	3
<input checked="" type="checkbox"/>	Castillo J	Benavente-Garcia O	3
<input checked="" type="checkbox"/>	Castillo J	Lorente J	3
<input checked="" type="checkbox"/>	Benavente-Garcia O	Lorente J	3
<input checked="" type="checkbox"/>	Zu Y	Fu Y	2
<input checked="" type="checkbox"/>	Zu Y	Chen L	2
<input checked="" type="checkbox"/>	Zu Y	Efferth T	2
<input checked="" type="checkbox"/>	Zu Y	Martinez AL	2
<input checked="" type="checkbox"/>	Conzalez-Trujano ME	Martinez AL	2
<input checked="" type="checkbox"/>	Conzalez-Trujano ME	Loez-Munoz S	2

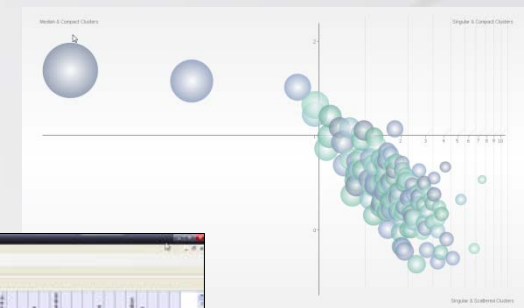
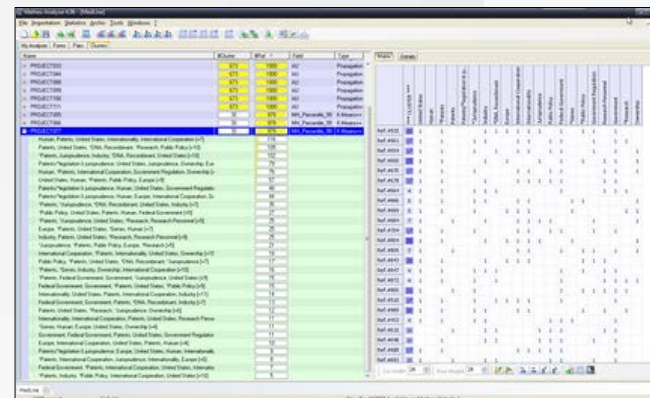
3 Dynamic Network of selected pairs

The network graph shows nodes representing authors and their connections. Nodes are labeled with names and a number in a superscript (e.g., Senorans FJ²). Edges are labeled with numbers (e.g., 5, 4, 3) representing the frequency of the pair. The graph is dynamic, showing the relationships between the selected pairs from the list.

- 1** Complete List of the Imported Fields and number of occurrences
- 2** Pairs List and frequencies
- 3** Dynamic Network of selected pairs

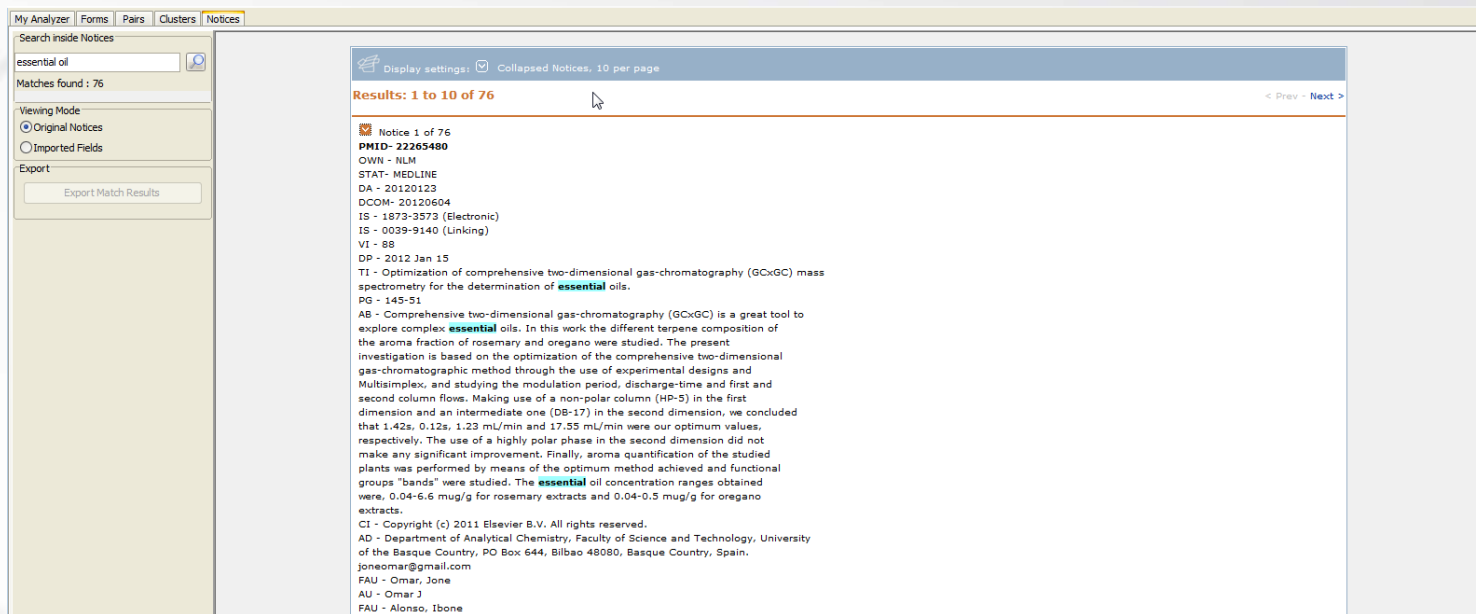
Matheo Analyzer offers several **automatic clustering methods** in order to be able to create information subsets quickly and easily and **to get quickly a dynamic classification** of data important volumes.

- ▶ K-Means++
- ▶ By propagation
- ▶ By dendrogram

Classe	Région	Statut	Type	Classe
PROJETS01	USA	1000	All	Propagatin
PROJETS02	USA	1000	All	Propagatin
PROJETS03	USA	1000	All	Propagatin
PROJETS04	USA	1000	All	Propagatin
PROJETS05	USA	1000	All	Propagatin
PROJETS06	USA	1000	All	Propagatin
PROJETS07	USA	1000	All	Propagatin
PROJETS08	USA	1000	All	Propagatin
PROJETS09	USA	1000	All	Propagatin
PROJETS10	USA	1000	All	Propagatin
PROJETS11	USA	1000	All	Propagatin
PROJETS12	USA	1000	All	Propagatin
PROJETS13	USA	1000	All	Propagatin
PROJETS14	USA	1000	All	Propagatin
PROJETS15	USA	1000	All	Propagatin
PROJETS16	USA	1000	All	Propagatin
PROJETS17	USA	1000	All	Propagatin
PROJETS18	USA	1000	All	Propagatin
PROJETS19	USA	1000	All	Propagatin
PROJETS20	USA	1000	All	Propagatin
PROJETS21	USA	1000	All	Propagatin
PROJETS22	USA	1000	All	Propagatin
PROJETS23	USA	1000	All	Propagatin
PROJETS24	USA	1000	All	Propagatin
PROJETS25	USA	1000	All	Propagatin
PROJETS26	USA	1000	All	Propagatin
PROJETS27	USA	1000	All	Propagatin
PROJETS28	USA	1000	All	Propagatin
PROJETS29	USA	1000	All	Propagatin
PROJETS30	USA	1000	All	Propagatin
PROJETS31	USA	1000	All	Propagatin
PROJETS32	USA	1000	All	Propagatin
PROJETS33	USA	1000	All	Propagatin
PROJETS34	USA	1000	All	Propagatin
PROJETS35	USA	1000	All	Propagatin
PROJETS36	USA	1000	All	Propagatin
PROJETS37	USA	1000	All	Propagatin
PROJETS38	USA	1000	All	Propagatin
PROJETS39	USA	1000	All	Propagatin
PROJETS40	USA	1000	All	Propagatin
PROJETS41	USA	1000	All	Propagatin
PROJETS42	USA	1000	All	Propagatin
PROJETS43	USA	1000	All	Propagatin
PROJETS44	USA	1000	All	Propagatin
PROJETS45	USA	1000	All	Propagatin
PROJETS46	USA	1000	All	Propagatin
PROJETS47	USA	1000	All	Propagatin
PROJETS48	USA	1000	All	Propagatin
PROJETS49	USA	1000	All	Propagatin
PROJETS50	USA	1000	All	Propagatin

Full browsing in original records or fields imported including a search module and export features



The screenshot displays the Matheo Analyzer interface with the following components:

- Navigation Bar:** My Analyzer | Forms | Pairs | Clusters | Notices
- Search Module:** Search inside Notices with a search box containing "essential oil" and a magnifying glass icon. Below it, it shows "Matches found : 76".
- Viewing Mode:** Radio buttons for "Original Notices" (selected) and "Imported Fields".
- Export:** An "Export Match Results" button.
- Main Content Area:**
 - Display settings: Collapsed Notices, 10 per page
 - Results: 1 to 10 of 76
 - Notice 1 of 76
 - PMID- 22265480**
 - OWN - NLM
 - STAT- MEDLINE
 - DA - 20120123
 - DCOM- 20120604
 - IS - 1873-9573 (Electronic)
 - IS - 0039-9140 (Linking)
 - VI - 88
 - DP - 2012 Jan 15
 - TI - Optimization of comprehensive two-dimensional gas-chromatography (GCxGC) mass spectrometry for the determination of **essential** oils.
 - PG - 145-51
 - AB - Comprehensive two-dimensional gas-chromatography (GCxGC) is a great tool to explore complex **essential** oils. In this work the different terpene composition of the aroma fraction of rosemary and oregano were studied. The present investigation is based on the optimization of the comprehensive two-dimensional gas-chromatographic method through the use of experimental designs and Multisimplex, and studying the modulation period, discharge-time and first and second column flows. Making use of a non-polar column (HP-5) in the first dimension and an intermediate one (DB-17) in the second dimension, we concluded that 1.42s, 0.12s, 1.23 mL/min and 17.55 mL/min were our optimum values, respectively. The use of a highly polar phase in the second dimension did not make any significant improvement. Finally, aroma quantification of the studied plants was performed by means of the optimum method achieved and functional groups "bands" were studied. The **essential** oil concentration ranges obtained were, 0.04-6.6 µg/g for rosemary extracts and 0.04-0.5 µg/g for oregano extracts.
 - CI - Copyright (c) 2011 Elsevier B.V. All rights reserved.
 - AD - Department of Analytical Chemistry, Faculty of Science and Technology, University of the Basque Country, PO Box 644, Bilbao 48080, Basque Country, Spain.
 - joneomar@gmail.com
 - FAU - Omar, Jone
 - AU - Omar J
 - FAU - Alonso, Ibone

▶ Storage

- ▶ With Matheo Analyzer, your data are saved on your own computer and not on a internet server with an hazardous security.

▶ Confidentiality and privacy

- ▶ Your projects (requests and results) never transit on an external supplier infrastructure (computer or network). You keep the entire mastering of your information.

▶ **Matheo Software never access to its customers data, requests or results.**

Some commercial references

- ▶ 3M ESPE
- ▶ AIRBUS
- ▶ ALMA Consulting Group España (ES)
- ▶ ARIST Centre
- ▶ Association Industries et Agro-ressources
- ▶ CCI Nice Côte d'Azur
- ▶ CDE (ES)
- ▶ CEMAGREF
- ▶ Centre Patlib Belgique
- ▶ CIRAD
- ▶ CITEVE (PT)
- ▶ CNES
- ▶ CNRS
- ▶ CRPHT (LU)
- ▶ Danone
- ▶ EADS
- ▶ EADS CCR
- ▶ EDF
- ▶ Eurocopter
- ▶ Gaming Partners International
- ▶ Glaizer group
- ▶ IFTH
- ▶ IMAJE SA
- ▶ IMN SSA Toulon
- ▶ INIST
- ▶ Institut Pierre Vernier
- ▶ Instituto Tecnológico da Energia ITE (ES)
- ▶ INT (BR)
- ▶ J. ISERN - Patent Attorneys (ES)
- ▶ Laboratorios HIPRA (ES)
- ▶ LIPI (Indonesia)
- ▶ Marne la Vallée
- ▶ Philip Morris
- ▶ Rexam
- ▶ Sanofi Aventis
- ▶ Siegfried Ltd (CH)
- ▶ ST Micro Electronics
- ▶ Stago International
- ▶ Sygma Motors (BR)
- ▶ Tech Center – CIEMAT (ES)
- ▶ Tech Watch Specialists
- ▶ Univ Bordeaux - Aquitaine / Cellule de valorisation
- ▶ Univ. Bergamo (IT)
- ▶ Univ Paul Cezanne
- ▶ Univ. Complutense Madrid (ES)
- ▶ University of Hohenheim (DE)
- ▶ Viakable (MX)
- ▶ ...

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Matheo Web creates a powerful environment for the analysis and the survey of internet based information (web, rss, blogs, newsletters, ...)

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Decision making based on information mapping and analysis

Matheo Analyzer creates strategic information based on large volumes of professional information such as patents or scientific papers. The integration of information maps, indicators and analysis in your decision process increase your company competitiveness

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