Structuring the unstructured with structured data

21 april 2016

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Wie?

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Intro

Partnership

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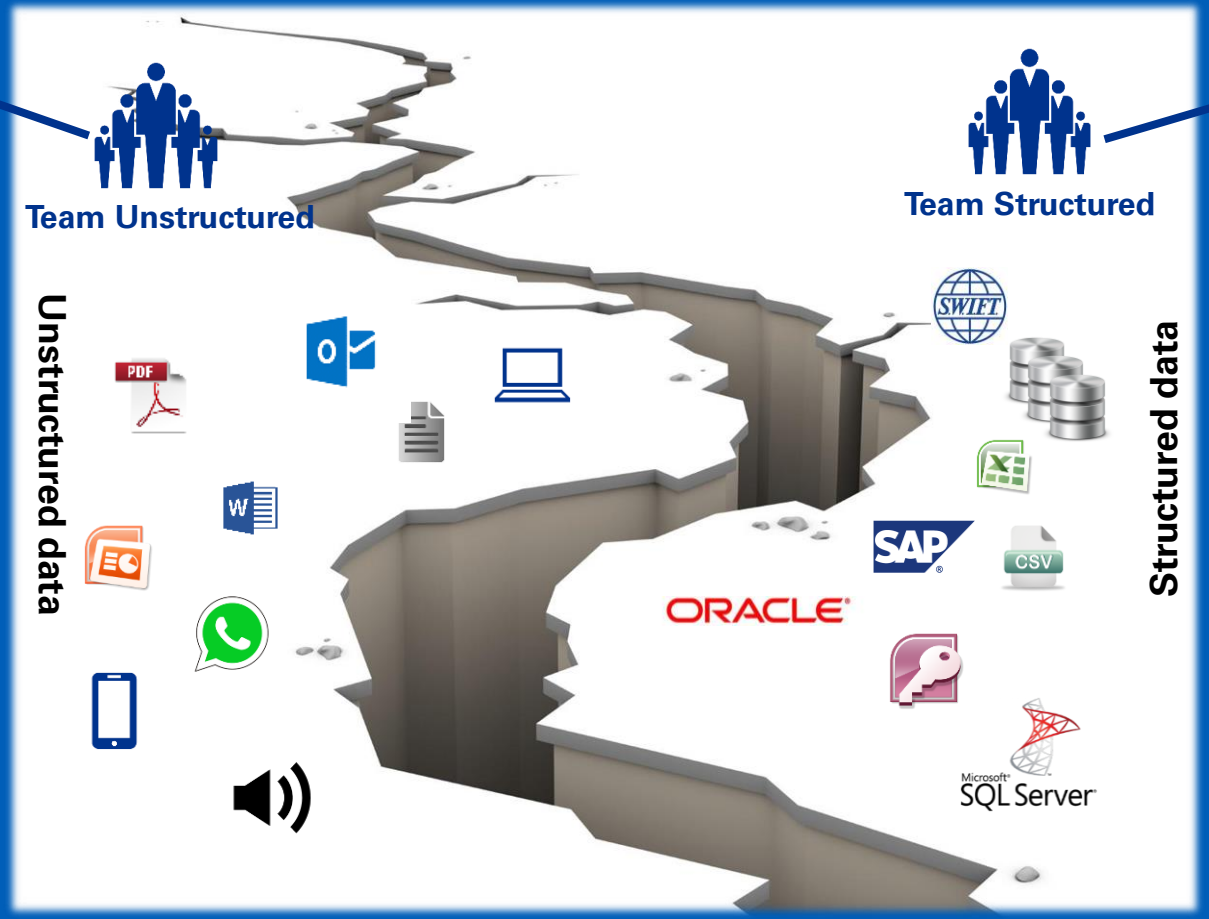
Intro

Het probleem..

Exchange data

- eDiscovery
- Forensic search
- Text mining
- Document review
- Document management



- Data analytics
- Data mining
- Visual analytics
- Statistics

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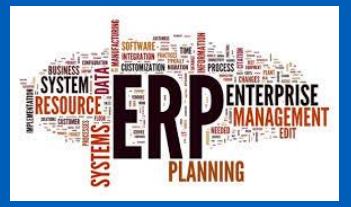
Intro

Voorbeelden: fraude onderzoek

Unstructured data

Structured data



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Intro

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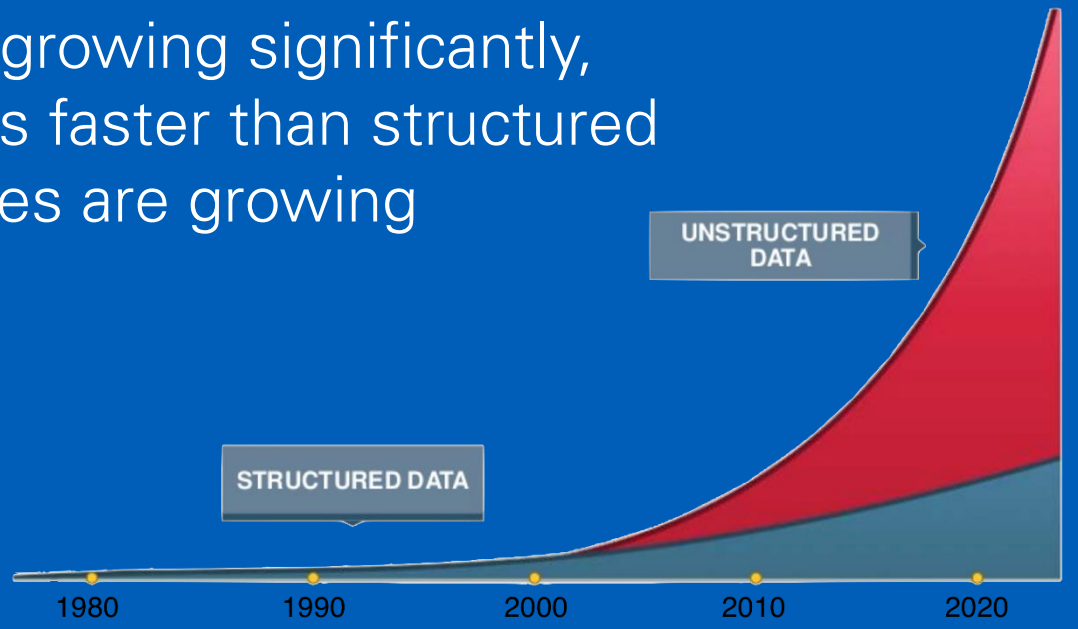
Experts estimate that 80 to 90 percent of the data in any organization is unstructured.

The amount of unstructured data in enterprises is growing significantly, often many times faster than structured databases are growing



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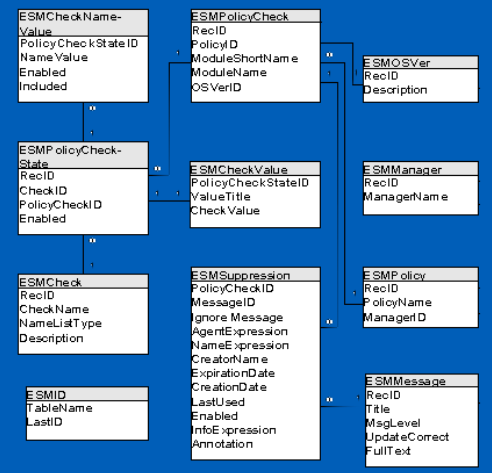
Hoe?

Indica



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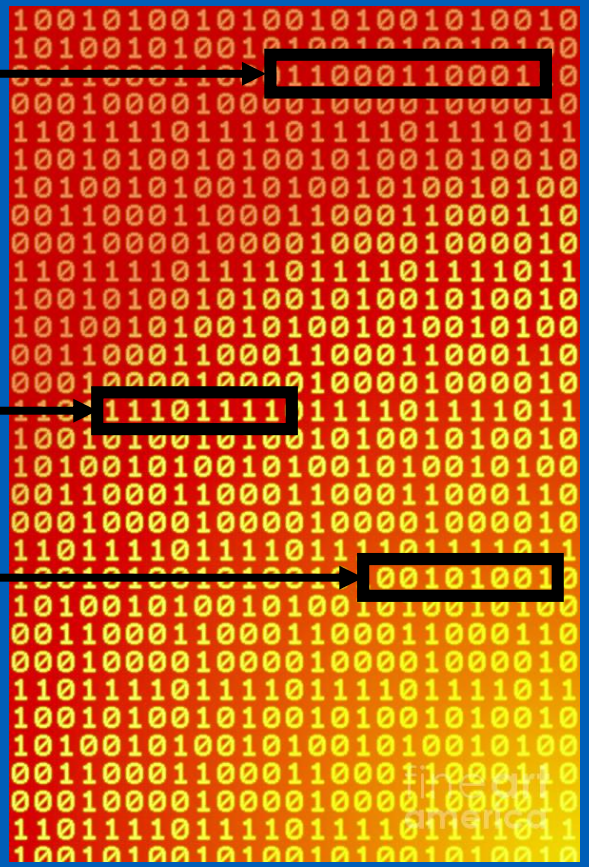
Hoe?

Relatie structured & unstructured data

Parent	Col1	Client
	…	
Indica BV	2009	Indica
	…	
	…	
	…	
Today	2016	Now
	…	
	…	
KPMG	1987	Klynveld
	…	



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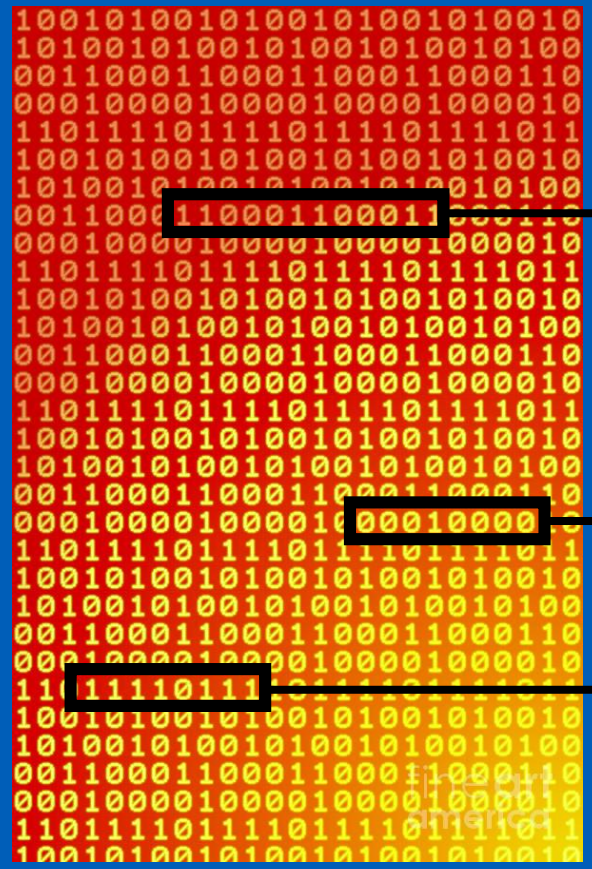
Hoe?

Relatie structured & unstructured data



ID	Amount	Location
	…	
Nice	42	NL
	…	
	…	
	…	
	…	
Structured	2016	Utrecht
	…	
Data	11	Here
	…	

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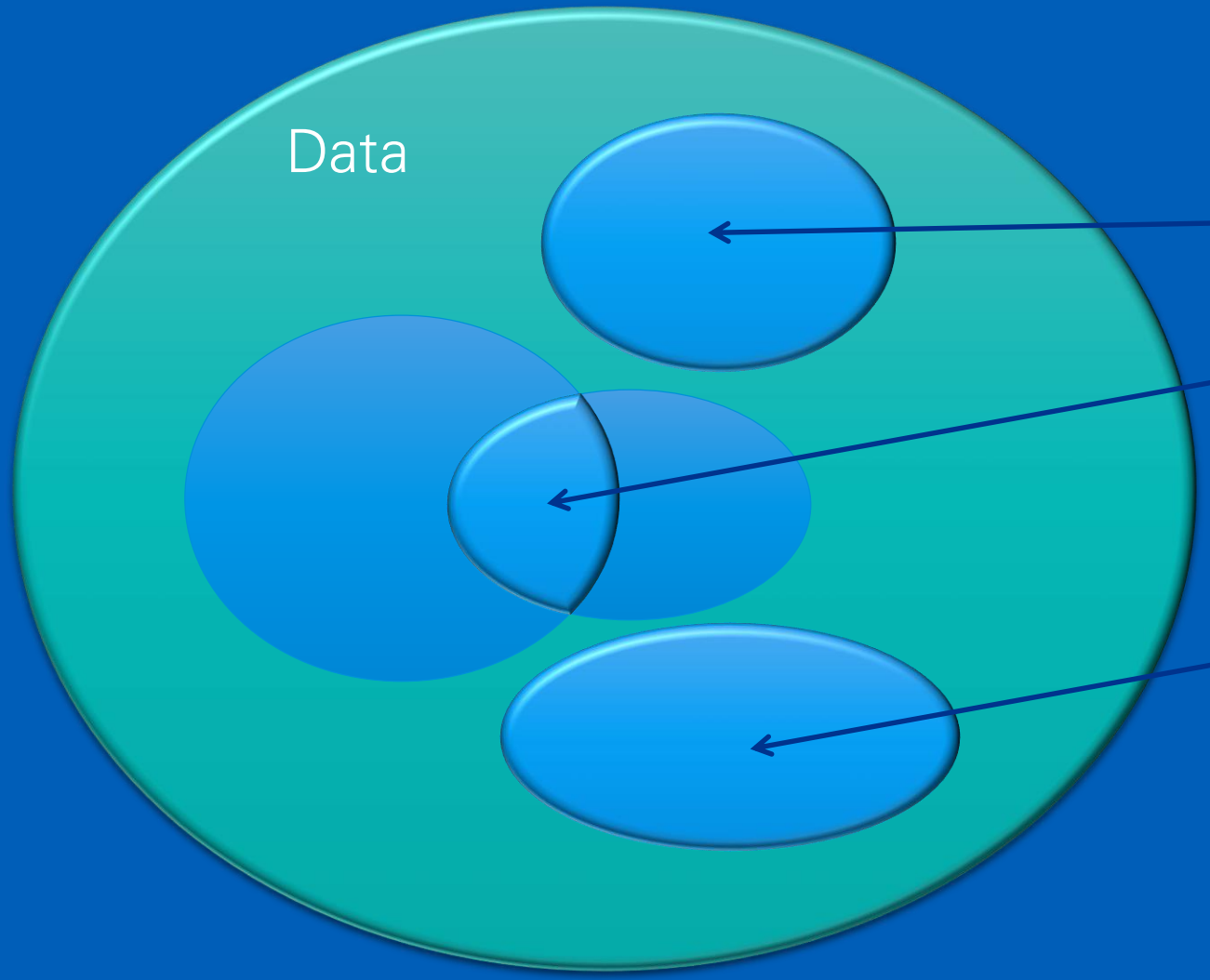
Hoe?

Relatie structured & unstructured data



Amount	account
…	…
42	…
…	…
145	32.63.81
…	…
…	…
…	11.33.64
…	…
…	..
…	

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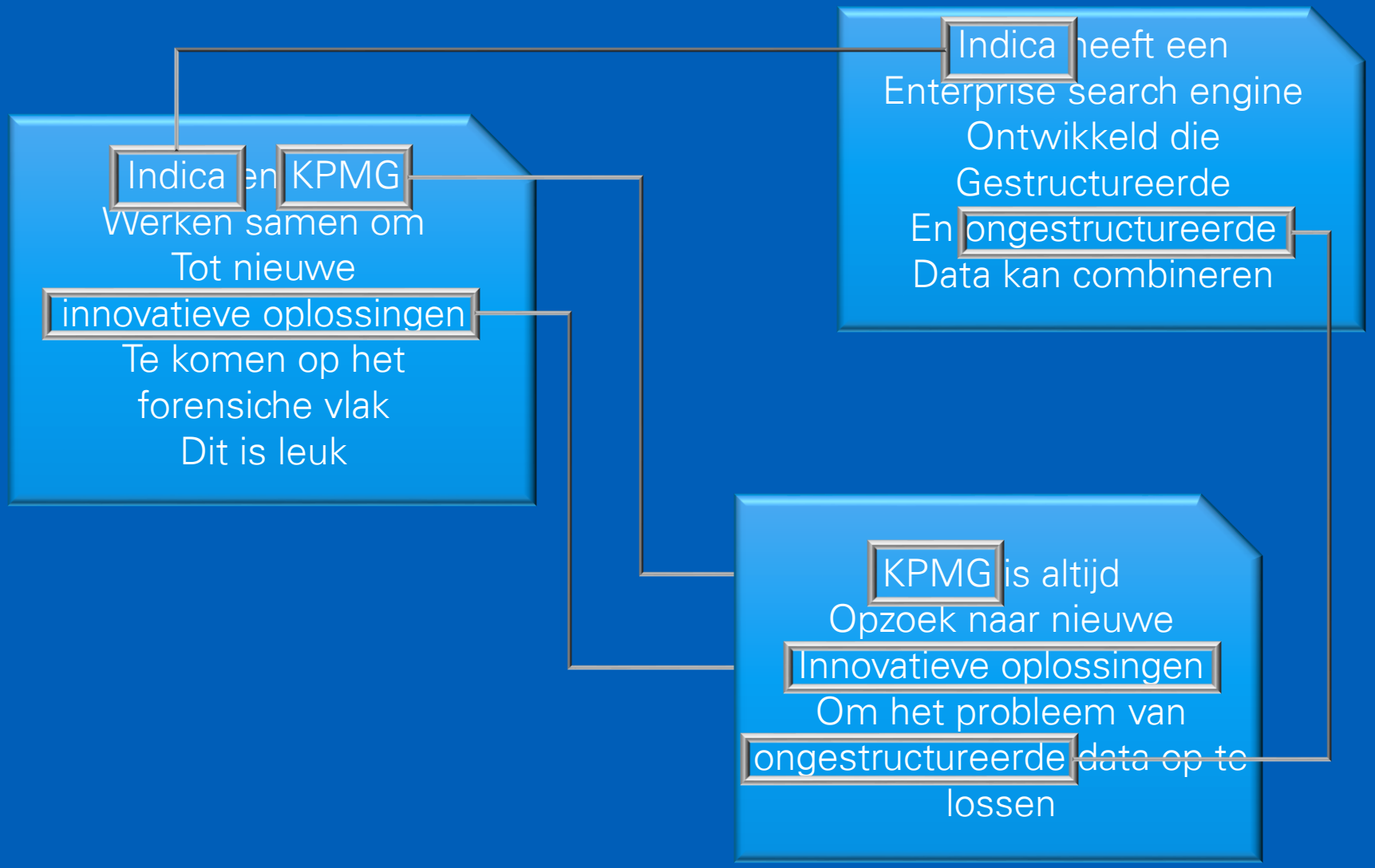
Hoe?

Relatie unstructured & unstructured data



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Relatie overzicht

Hoe?

Verborgen relaties
komen naar boven

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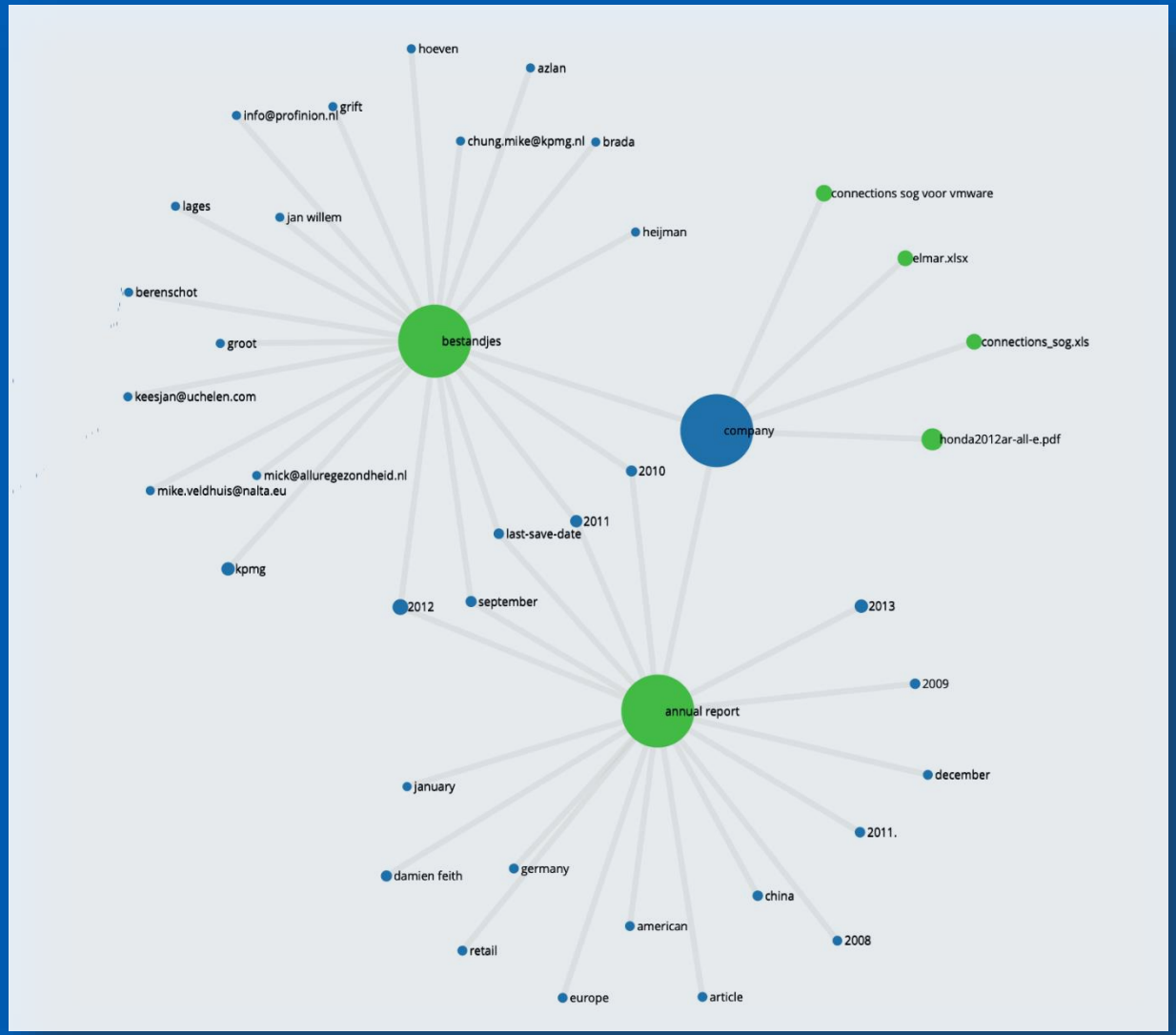
Hoe?

Relatie overzicht



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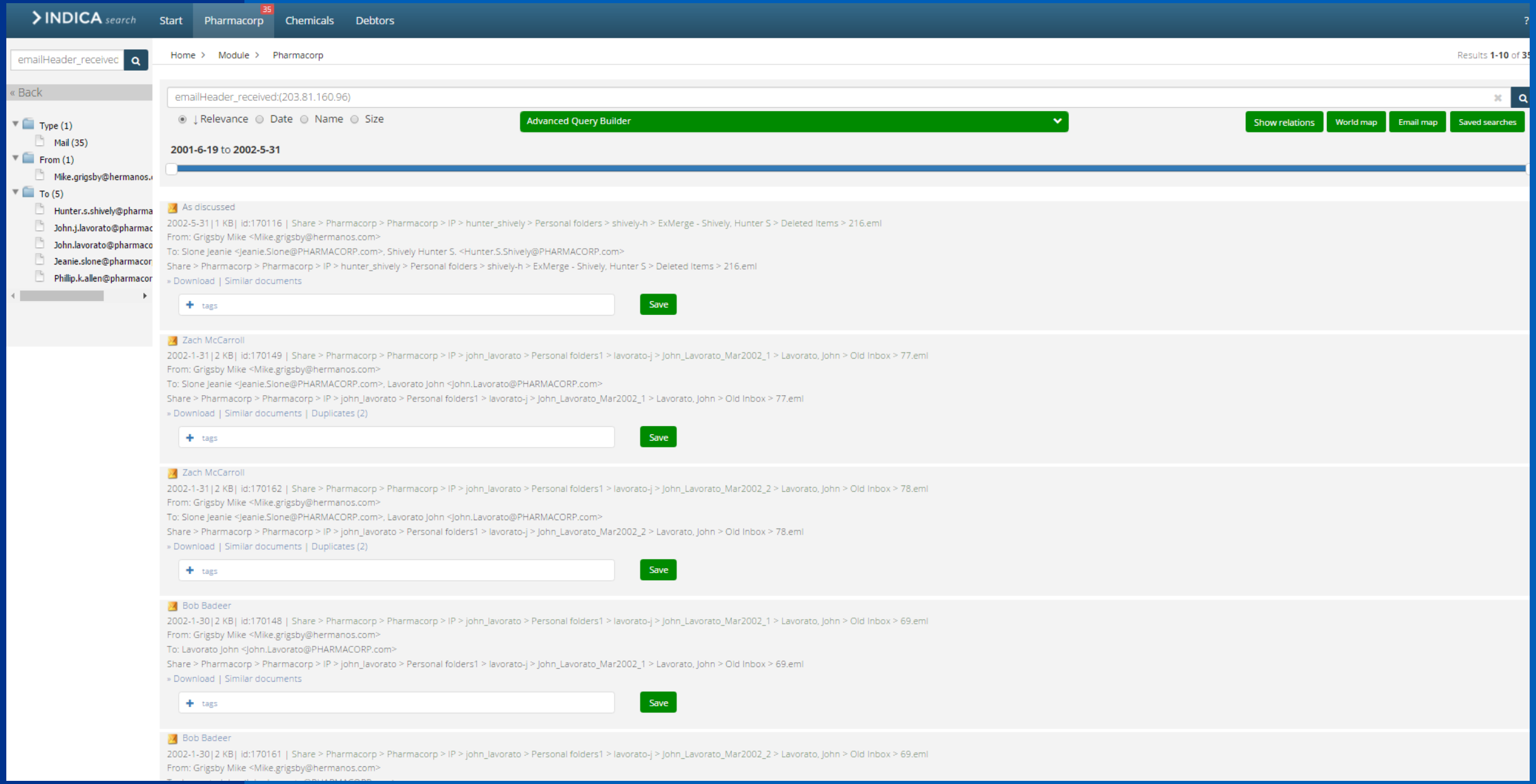

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From : Grigsby Mike <Mike.grigsby@hermanos.com>
To : Slone Jeanie <Jeanie.Slone@PHARMACORP.com>, Shively Hunter S. <Hunter.S.Shively@PHARMACORP.com>
Date : Wed, 31 May 2002 13:39:24 -0800 (PST),Wed, 31 May 2002 13:39:24 -0600
Subject : As discussed

```
Hi Jeanie,

Can you please push through the order of Ephedrine as we discussed over the phone yesterday?

Thanks,
Mike
```

Share > Pharmacorp > Pharmacorp > IP > hunter_shively > Personal folders > shively-h > ExMerge - Shively, Hunter S > Deleted Items > 216.eml

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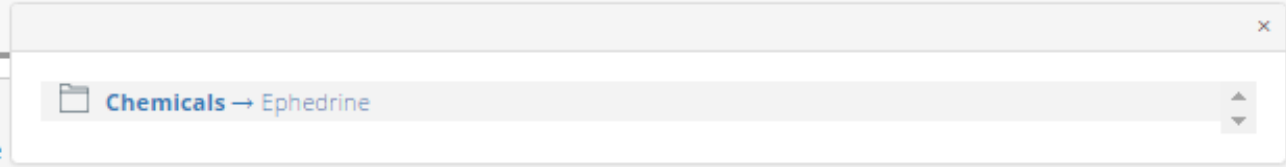


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name	Ephedrine
description	Ephedrine is only found in individuals who have consumed this drug. Ephedrine is an alpha- and beta-adrenergic agonist that may also enhance release of norepinephrine. It has been used in the treatment of several disorders including asthma, heart failure, rhinitis, and urinary incontinence, and for its central nervous system stimulatory effects in the treatment of narcolepsy and depression. It has become less extensively used with the advent of more selective agonists. [PubChem] Ephedrine is similar in molecular structure to the well-known drugs phenylpropanolamine and methamphetamine, as well as to the important neurotransmitter epinephrine (adrenalin). Chemically, it is an alkaloid with a phenethylamine skeleton found in various plants in the genus Ephedra (family Ephedraceae). It works mainly by increasing the activity of norepinephrine (noradrenalin) on adrenergic receptors. It is most usually marketed as the hydrochloride or sulfate salt.

Chemicals → Diphenhydramine

Chemicals → Pseudoephedrine

Order for 509833

2002-6-2|1 KB| id:166208 | Share > Pharmacorp > Pharmacorp > 143.eml

From: Slone Jeanie <Jeanie.Slone@PHARMACORP.com>

To: Lavorato John <John.J.Lavorato@PHARMACORP.com>

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As discussed

2002-5-31|1 KB| id:170116 | Share > Pharmacorp > Pharmacorp > IP > hunter_shively > Personal folders > shively-h > ExMerge - Shively, Hunter S > Deleted Items > 216.eml

From: Grigsby Mike <Mike.grigsby@hermanos.com>

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From : Slone Jeanie <Jeanie.Slone@PHARMACORP.com>
To : Lavorato John <John.J.Lavorato@PHARMACORP.com>
Date : Tue, 1 Jun 2002 17:31:05 -0800 (PST),Tue, 1 Jun 2002 17:31:05 -0600
Subject : Order for 509833

Hi John,

One of my clients would like to order 250 SKU of Ephedrine. Could you please book this in under debtor 509833?

Thanks,
Jeanie

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ID	509833
Name	Hermanos LTD
Address1	Circle drive 22
City	London
Postal code	567321

Invoice Hermanos.pdf

2016-04-05 | 339 KB | id:170155 | Share > Pharmacorp > Pharmacorp > IP > john_lavorato > Personal folders1 > lavorato-j > John_Lavorato_Mar2002_1 > Lavorato, John > Old Inbox > Invoice Hermanos.pdf

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+ tags

Save

Order for 509833

2002-6-2 | 1 KB | id:166208 | Share > Pharmacorp > Pharmacorp > 143.eml

From: Slone Jeanie <Jeanie.Slone@PHARMACORP.com>

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Adres: **Pharmacorp**
Broekhuizenstraat 33
Utrecht

Bank: ABN Amro
IBAN: NL55ABNA2288990

Tel: +31 22569877
E-mail: info@pharmacorp.com
Website: http://www.pharmacorp.com

Hermanos
Circle drive 22
London

Invoice

Invoice date: : 30-06-2002
Our reference: 509833
Invoice number: 232588

DESCRIPTION	SKU	PRICE PER SKU	TOTAL
CAS Number: 299-42-3 To be delivered at your offshore location	250	€ 100,00	€ 25.000,00
		Subtotal	€ 25.000,00

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