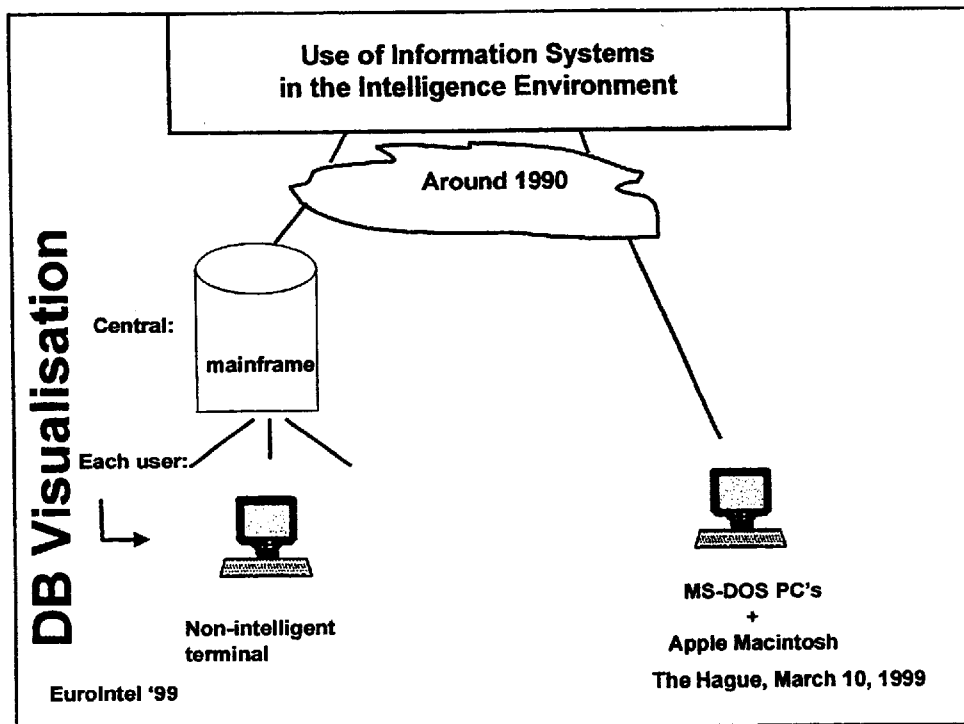


A User-Centric Approach to the use of modern tools for database visualisation & image processing

by
Jan Dunnink

EuroIntel '99

The Hague, March 10, 1999



Characteristics for the use

Around 1990:

- **storage neuroses (general)**
- **just alpha and numeric (mainframe)**
- **processing in batch (mainframe)**
- **first local processing and storage (PC)**
- **first pictures, images, graphics (Mac)**

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Characteristics for the use (cont'd)

During the 90's:

- **PC-Networking**
- **Client/Server**
- **MS-Dos → Windows**
- **Graphics, images, sound (Multimedia)**
- **Internet**
- **User friendliness**

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Characteristics for the user (cont'd)

1999 Question 1:

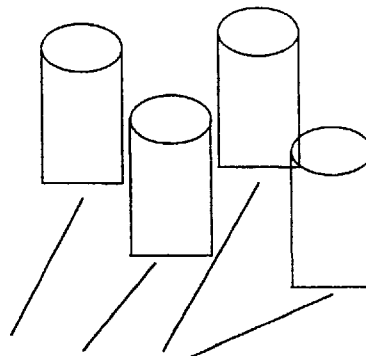
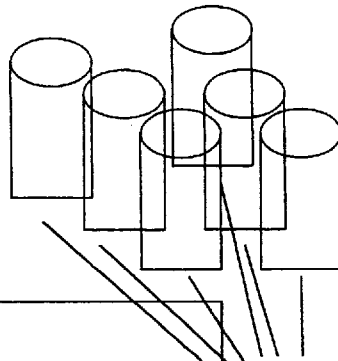
How to use this technology in
the intelligence environment?

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INTERNAL DATABASES

OPEN SOURCES

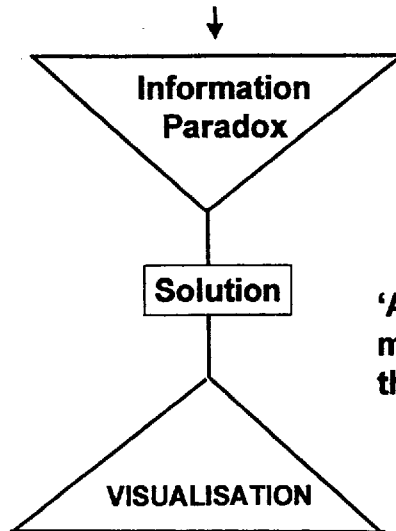


1999 Question 2:

How do I get the right information out of
the right database at the right time?

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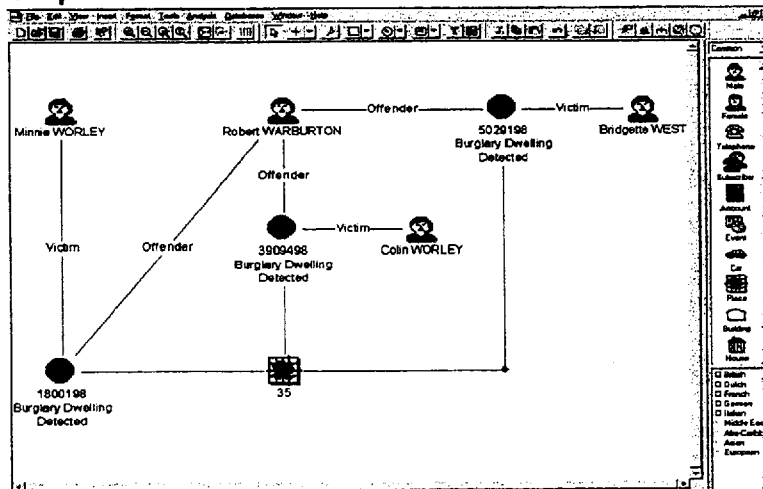
'A picture says more than thousand words'

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Database visualisation via graphical display (charts)

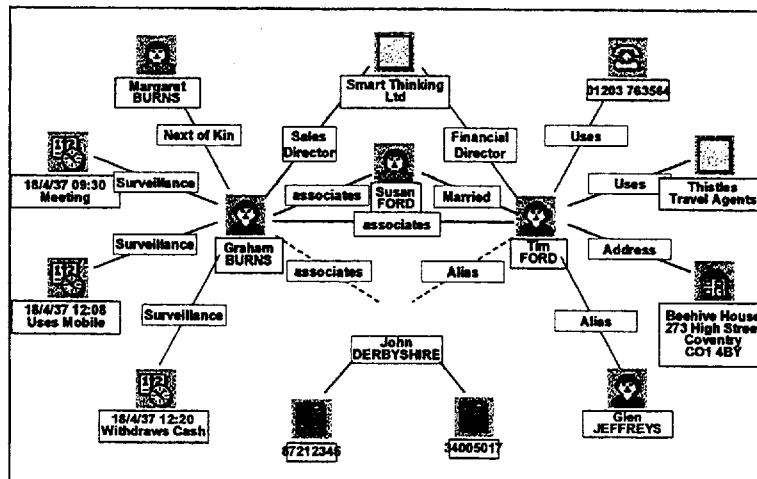
Simple chart



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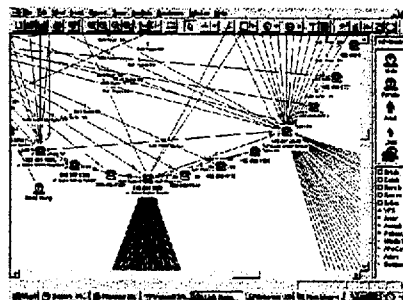
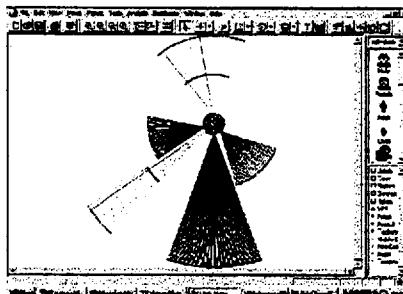
More complicated chart



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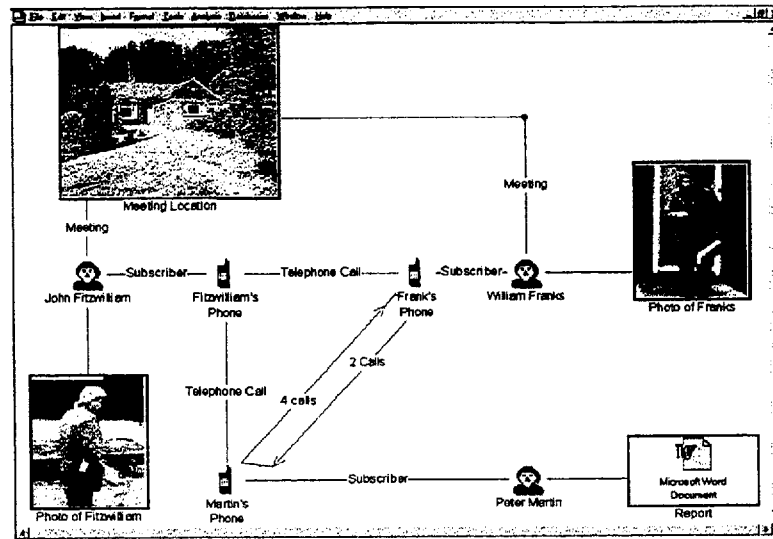
Very complicated chart



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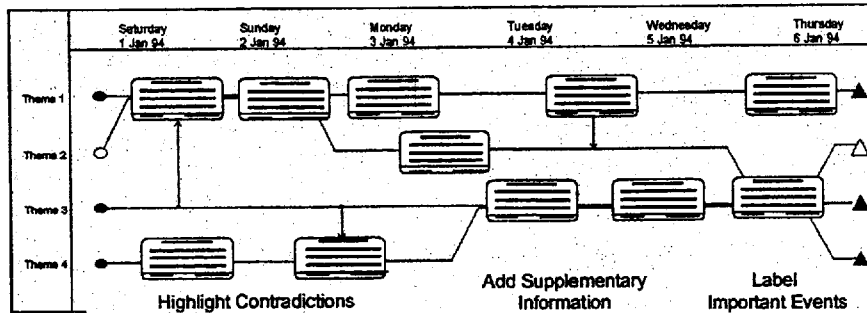
Multimedia chart



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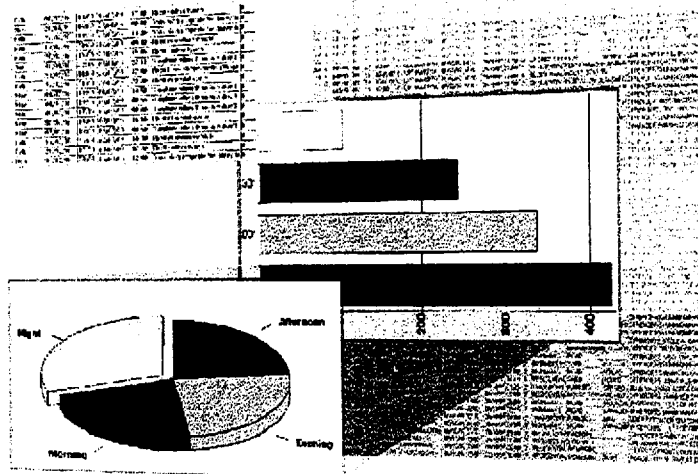
Sequence of Events chart



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Crime Pattern Analysis



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Database visualisation via Image Processing (example: Aliens Branch, Netherlands)



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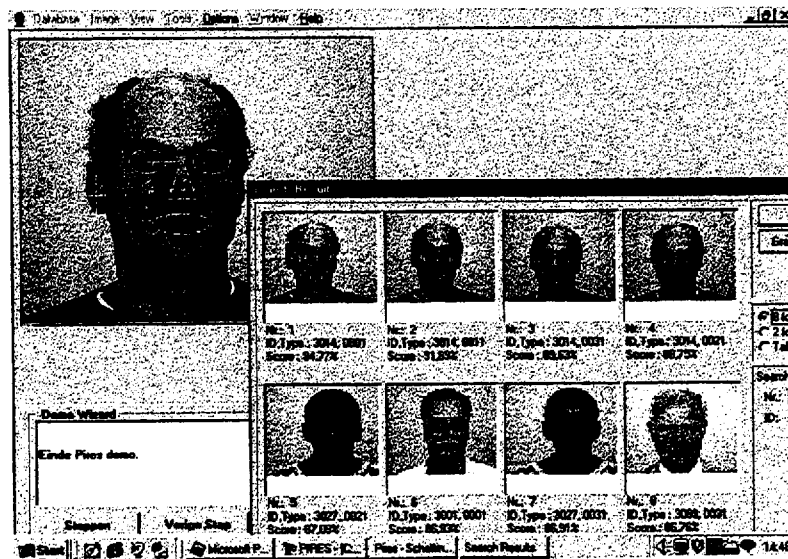
Image Search in an Intranet Environment



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Face Recognition



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Facial Composites



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Other examples of image processing

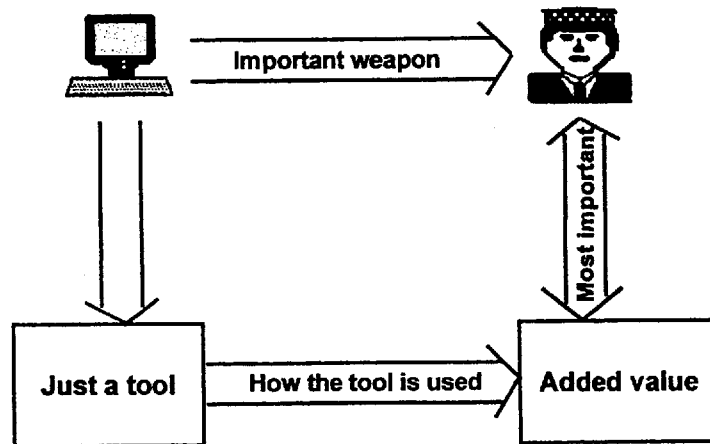
- Mug shot systems
- Automatic generation of database descriptions
- Facial recognition for access control, identification (banks), staff control
- Weapon recognition
- Digital reading fingerprints
- Car number plate systems
- And many more.....

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Summary

DB Visualisation



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