

ADNS: additional options for viewing ADNS data

ADNS Working Group, 23rd January 2008

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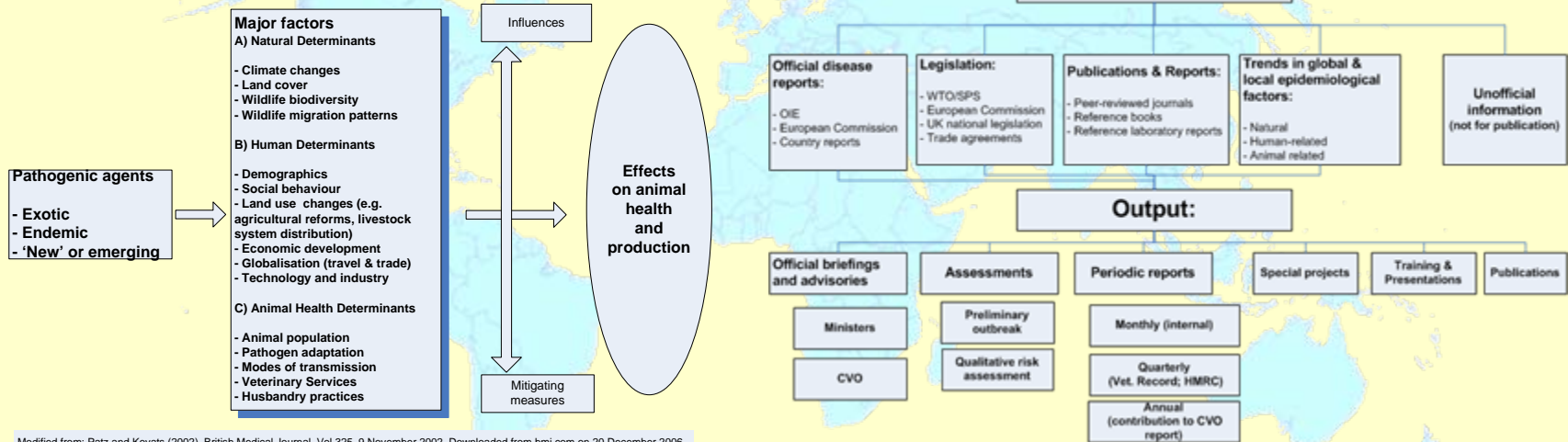
Aims today

Brief introduction to globalspots.eu

1. General business context
2. The two versions of the tool
3. Future opportunities

Global Factors and Risks to Animal Health

Fig.1. Conceptual considerations – national and international factors influencing potential risks to animal health in the UK



Modified from: Patz and Kovats (2002). British Medical Journal, Vol.325, 9 November 2002. Downloaded from bmj.com on 20 December 2006.

Key conclusion

- The need for a framework of expanded and combined scientific knowledge



- **Globalspots**
 - A free global gazetteer
 - Significantly increases the speed and accuracy of place name plotting for risk assessment
- **Business requirements**
 - Accurate place name searching
 - Global coverage with regional features
 - Accurate plotting of multiple points
 - Rapid, intelligent searching
 - Expert versus “Non-Expert” versions
 - Facilitate collaboration – save and publish



Key Features

- Global coverage – 8 million place names
- Local knowledge – regional features
- Multiple point plotting
- Rapid searching
- High accuracy / sensitivity
- Intelligent searching / adjustable specificity
- Desktop “Expert” version
- Web-based GoogleMaps™ version
- Collaboration – save your work and publish



Demonstration of web-based version

Desktop version

- Easy to use User interface (selection driven)
- High degree of visual and textual detail
- Powerful analysis - provides a powerful analysis and technical tool
- Integrated – with a widely used GIS system
- Identification of administrative areas based on geographical coordinates instead of naming conventions
- High Degree of Technical Specification
- Geo browsing – validates textual-based searches
- Shopping lists – create and save as CVS or Shapefile

Untitled - ArcMap - ArcView

File Edit View Insert Selection Tools Window Help

1:3,395,727 GlobalGazetteer

Layers

- Small Cities, Towns and Villages
 - Place Type
 - Small City
 - Town
 - Village
 - Small Village
 - Tiny Village
- Major Roads
 - Road Type
 - Divided Highway
 - Federal Highway
 - Regional Road
 - Local
- Minor Water
 - Minor
 - Other
- world

Global Gazetteer

General GeoNames Search GIS View

Step 2: Select a retrieved GeoName to see detailed information about it. Click "---->" to place the GeoNames in the 'shopping list'. If you want to search for a new Name, click on the search tab. When you finished with your searches, click 'Map selected GeoName' to map the selected GeoName in ArcMap.

Results

Retrieved GeoNames	5 items in the List
Region,lat,long,Feature,Populated_Class,Country_1,Admin_1,Admin_2,Country_2,Generic_Type,Name	2,42.11,26.08,Populated place,,BUI
2,40.5,23,Locality or area,,GREECE,Greece (general),,,,MACEDONIA,Macedonia	2,43.63,23.78,Populated place,,BUI
2,41,23,Locality or area,,GREECE,Greece (general),,,,MACEDONIA,Macedonia	2,43.48,26.73,Populated place,,BUI
	2,43.11,26.16,Populated place,,BUI
	2,43.95,26.73,Populated place,,BUI

Clear List Select All **Map selected GeoName**

2,40.5,23,Locality or area,,GREECE,Greece (general),,,,MACEDONIA,Macedonia

Path Name: \\ahvggis1\gis\Customizations\GIS Select

File Name: GeoNames_04-11-2007_153045 **Save Selected GeoNames as CSV**

The Database in Use is: \\ahvggis1\gis\Customizations\GlobalGazetteer\databases\GR.mdb Select New DataBase

GIS Team morbus consulting



Technology

- “Open source” platform = no cost
- Freely available data source = no cost
- Morbus know-how = development cost

Opportunities for extensions

- Integration with other datasets and applications
- Uploading of **Disease Related Data** in a variety of formats such as images and videos
- Development of **Basic Web-based GIS Tools** that can be used by non-GIS experts
- Development of **Time-Based Animations** to show space-time distribution, movement and evolution of disease threats and outbreaks

Global Gazetteer - Results

http://www.briarhouse.co.uk/resultsFrame.php? why global gazetter

Introductio...oTechnology Sign out of ...ssport sites Okinnbphbv...ogle Video http://www...lon_con.pdf gouzgounis.com www.greek-movies.com morbusemail Apple (97) >>

Place Search User Guide

Map Satellite Hybrid

Map Sat Hyb

Basic GIS Tools

Place Name: Abuqin He | Admin Area: 08 | Country: CH | Place Classification: H
 [Click to reveal/hide details]

Place Name: Abutang | Admin Area: 11 | Country: CH | Place Classification: P
 [Click to reveal/hide details]

Place Name: Acha | Admin Area: 18 | Country: CH | Place Classification: P
 [Click to reveal/hide details]

Place Name: A-ch&C™a Kang | Admin Area: 02 | Country: CH | Place Classification: T
 [Click to reveal/hide details]

Place Name: Achak-kum Lake | Admin Area: 13 | Country: CH | Place Classification: H
 [Click to reveal/hide details]

Place Name: Acha | Admin Area: 13 | Country: CH | Place Classification: P
 [Click to reveal/hide details]

Place Name: Achan | Admin Area: 13 | Country: CH | Place Classification: P
 [Click to reveal/hide details]



500 mi
500 km

Imagery ©2007 NASA -Terms of Use

Further opportunities

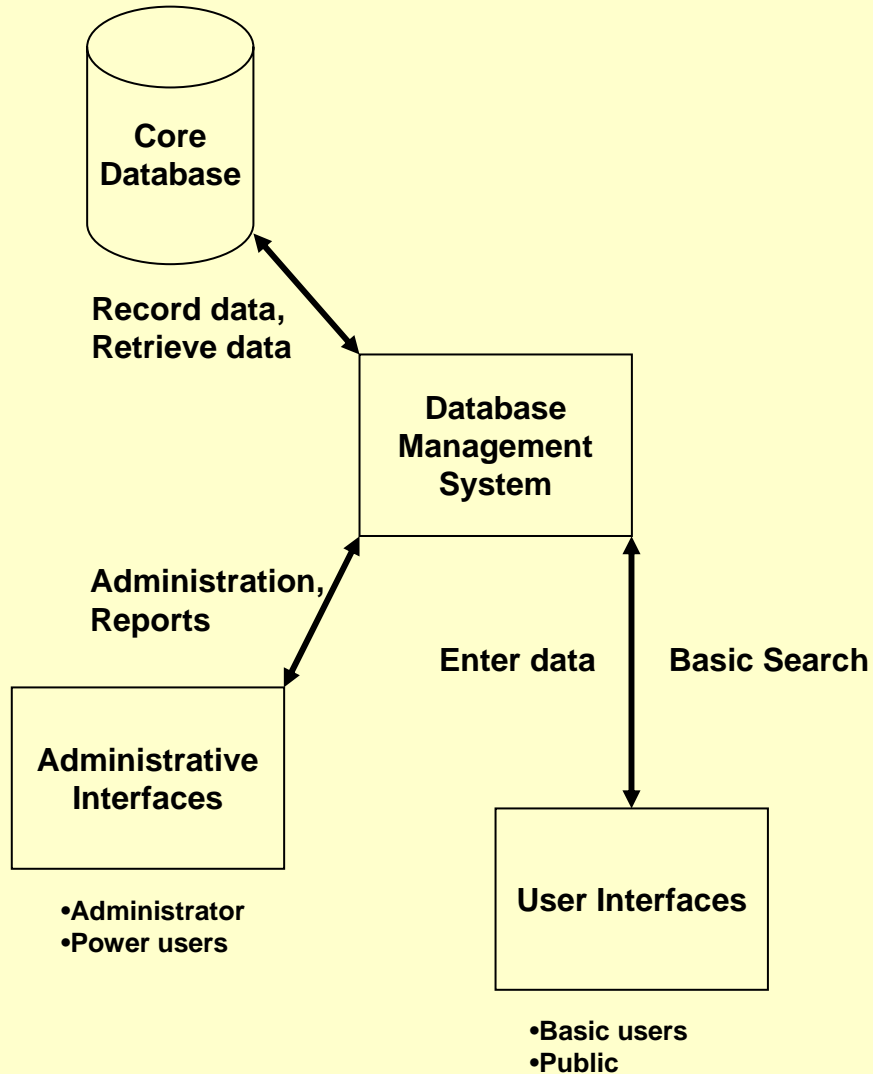
Mass collaboration

- “Customers become **Prosumers**”

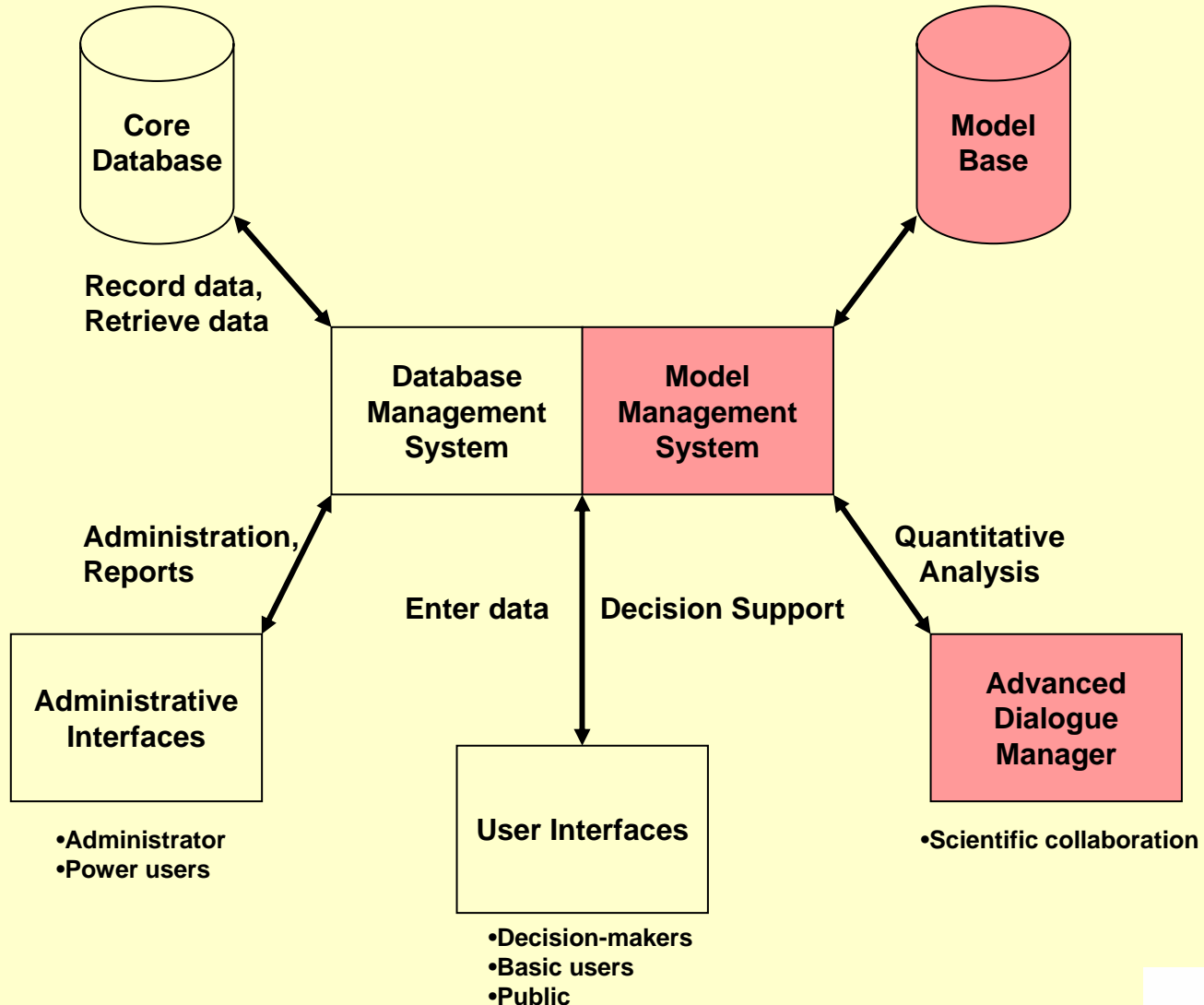
Decision Support System

- Reporting Systems collect information in a structured way and enable us to answer the question, “What did we do?”
- Management Information Systems extend these tools answer the question, “Did we do things right?”
- Decision Support Systems answer the question, “Are we doing the right thing?”

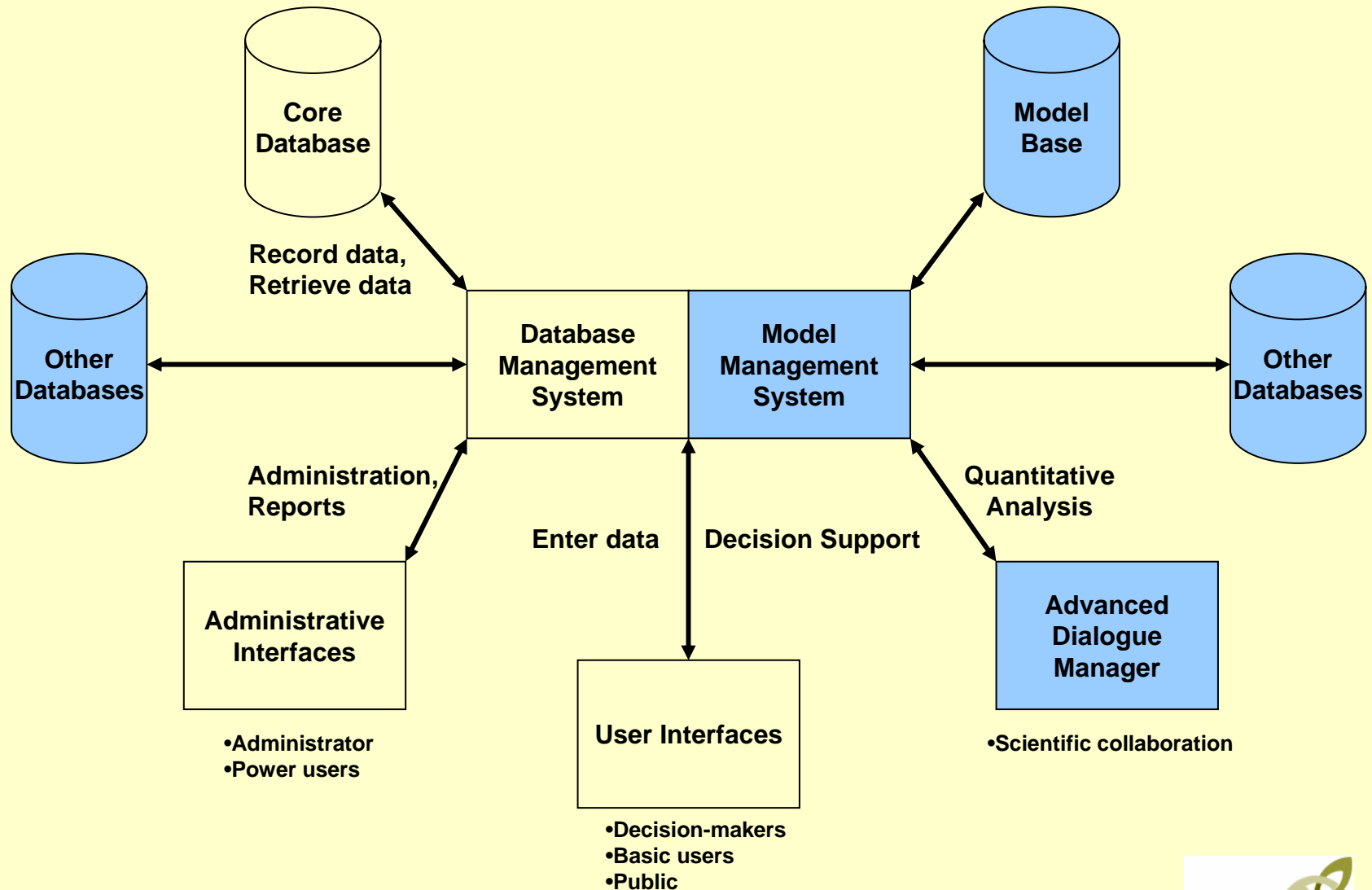
Typical System



Decision Support System (DSS)



Advanced DSS



Questions?