

# **WITSML, PRODML and National Data Repositories could together deliver real benefits**

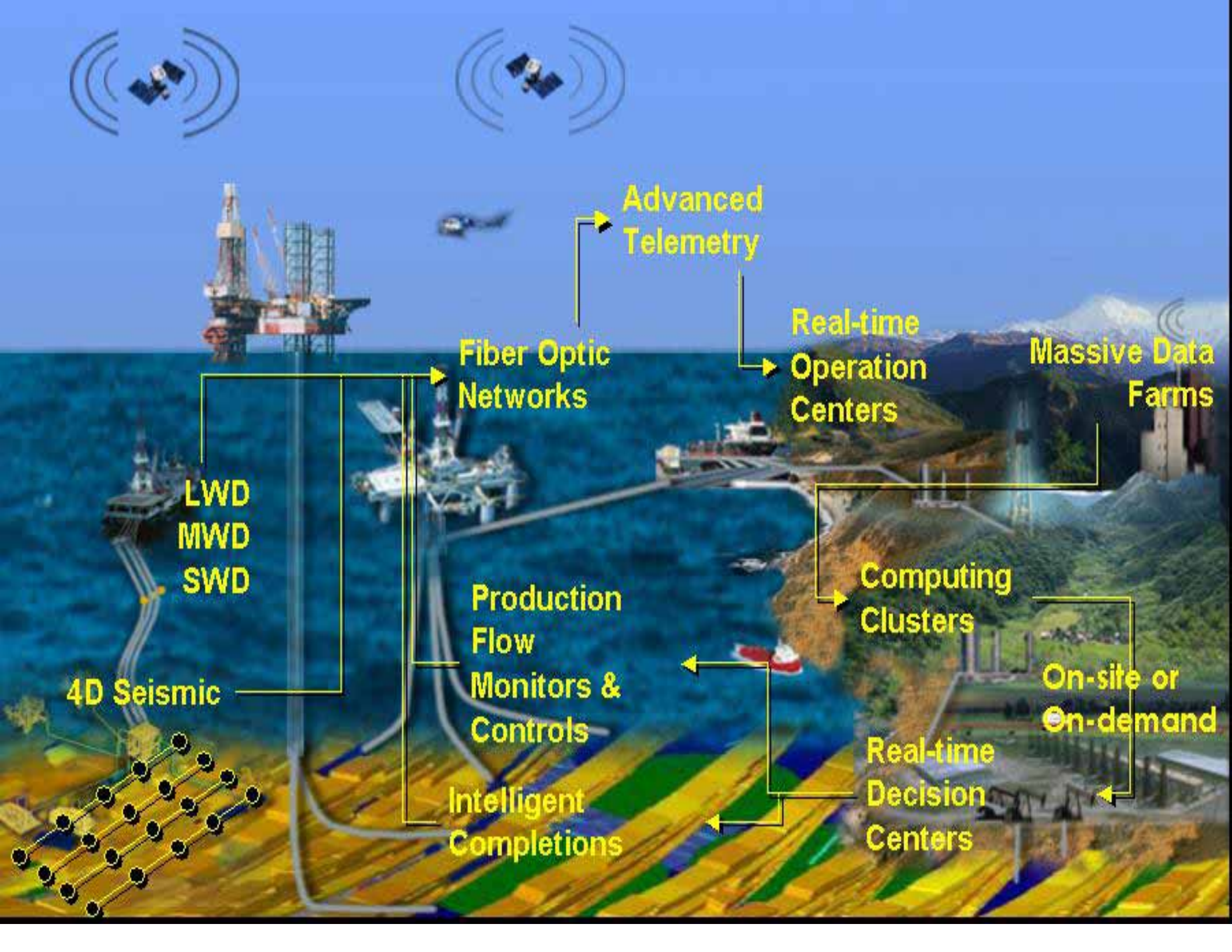
**Stewart Robinson**

**Director of IT and Data services**

**UK Department of Energy and Climate Change  
(and board member Energistics)**

**There are real benefits if we can find  
a way of working together.**







# Centralized monitoring of drilling operations



**But are the oil industry really collaborating ?**



Here are some examples...

**<WITSML/>**

**<PRODML />**



# WITSML Special Interest Group Members



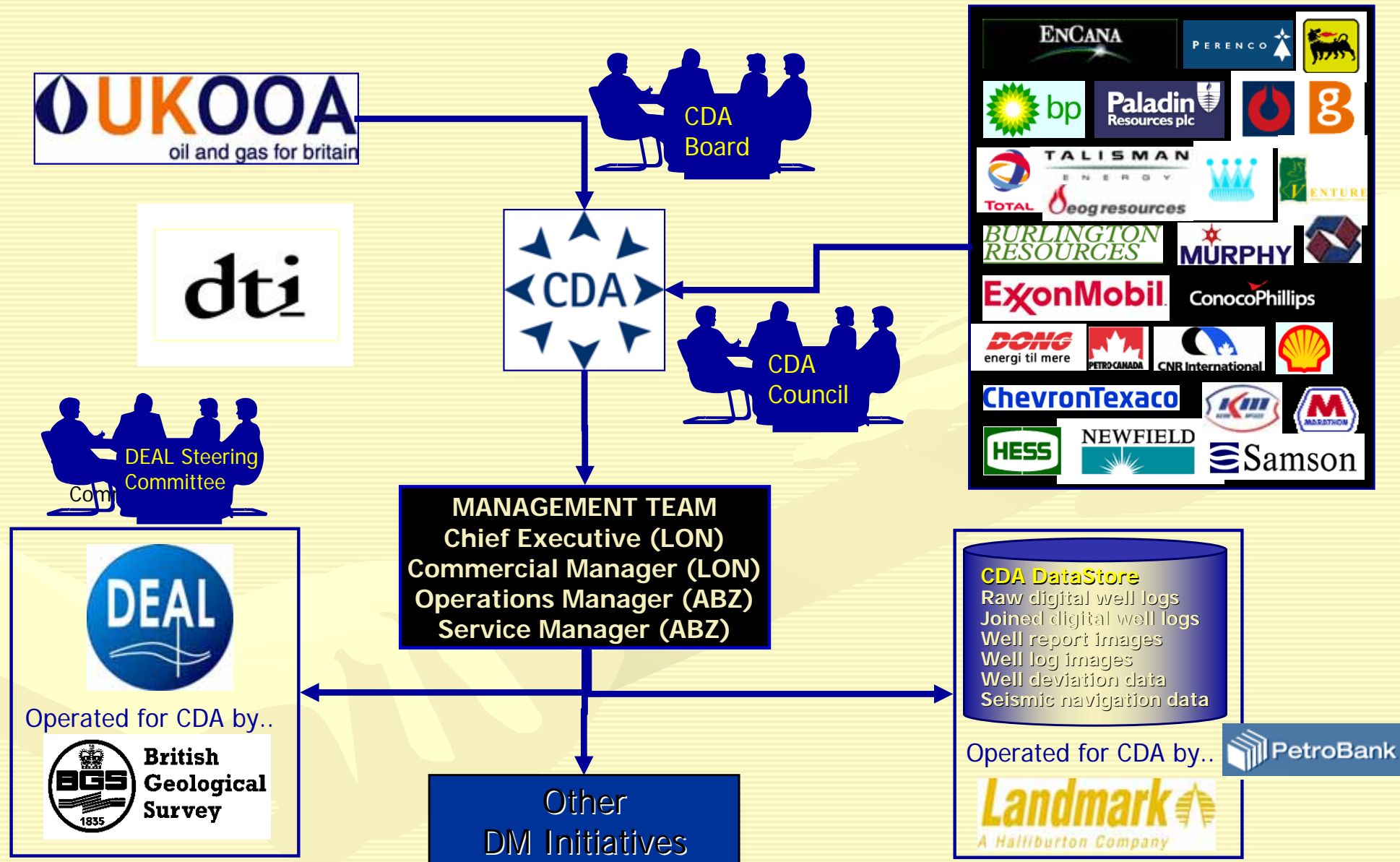
# PRODML Work Group ('06)

## Members



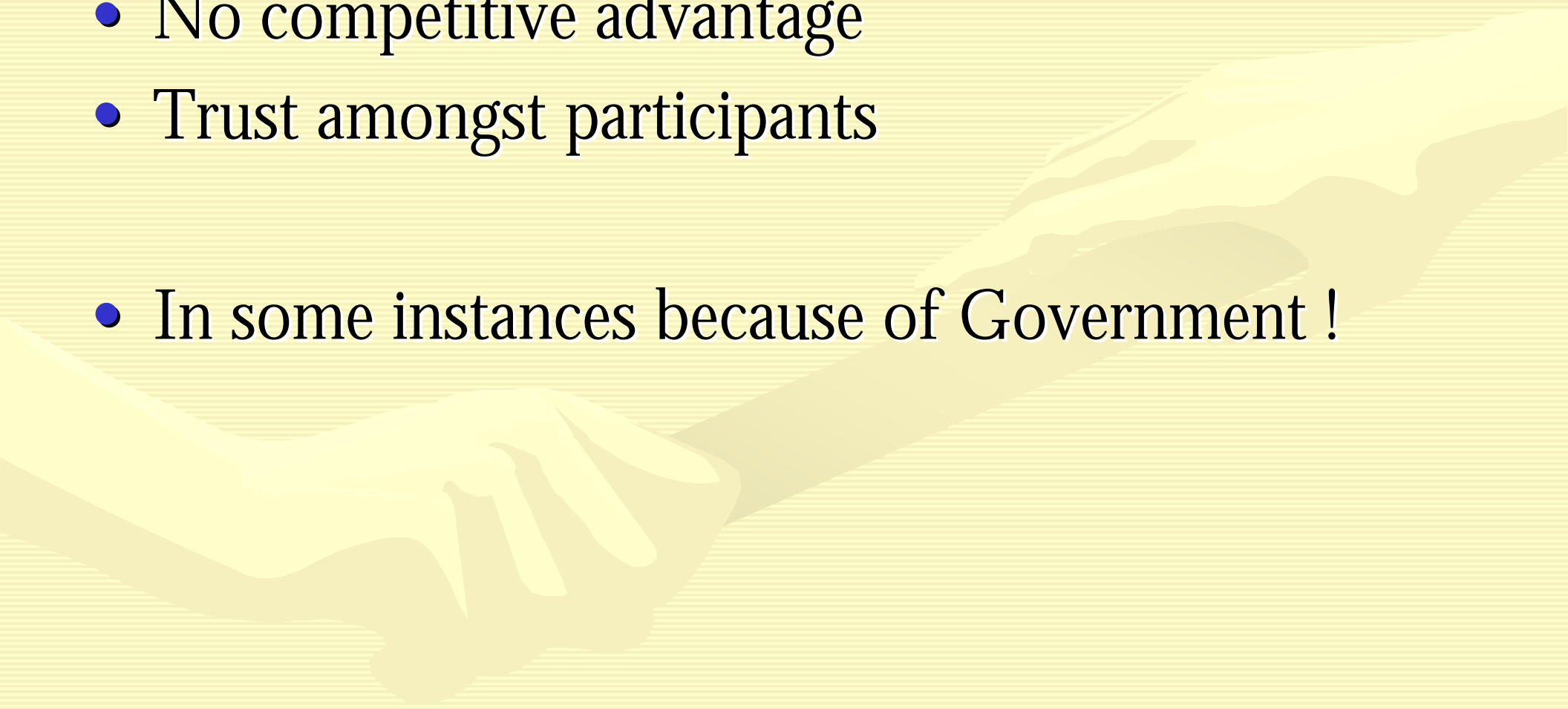


# CDA – UK's NDR




# Why were / are they successful ?

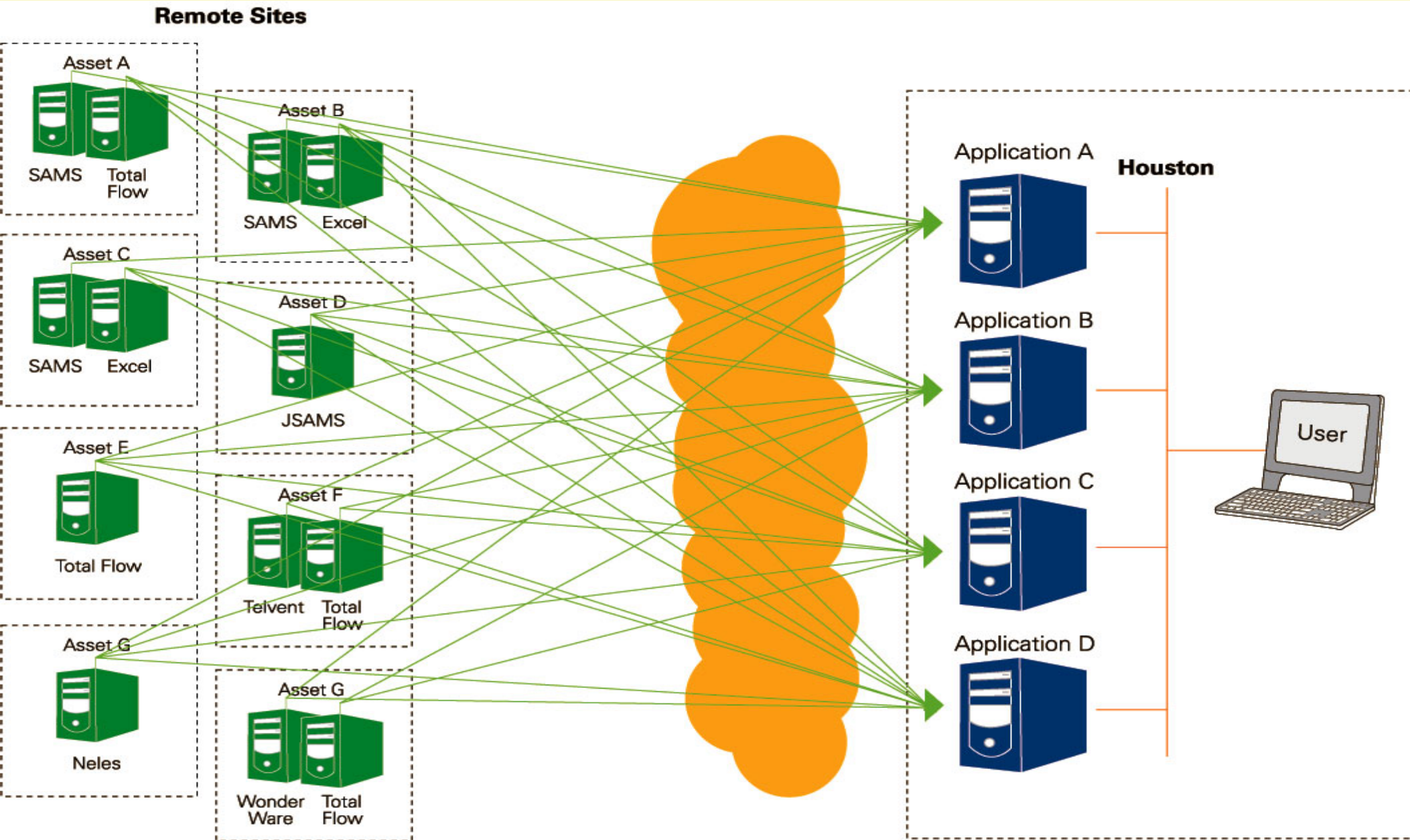
- Common goals
- No competitive advantage
- Trust amongst participants
- In some instances because of Government !



# What stops us collaborating more ?

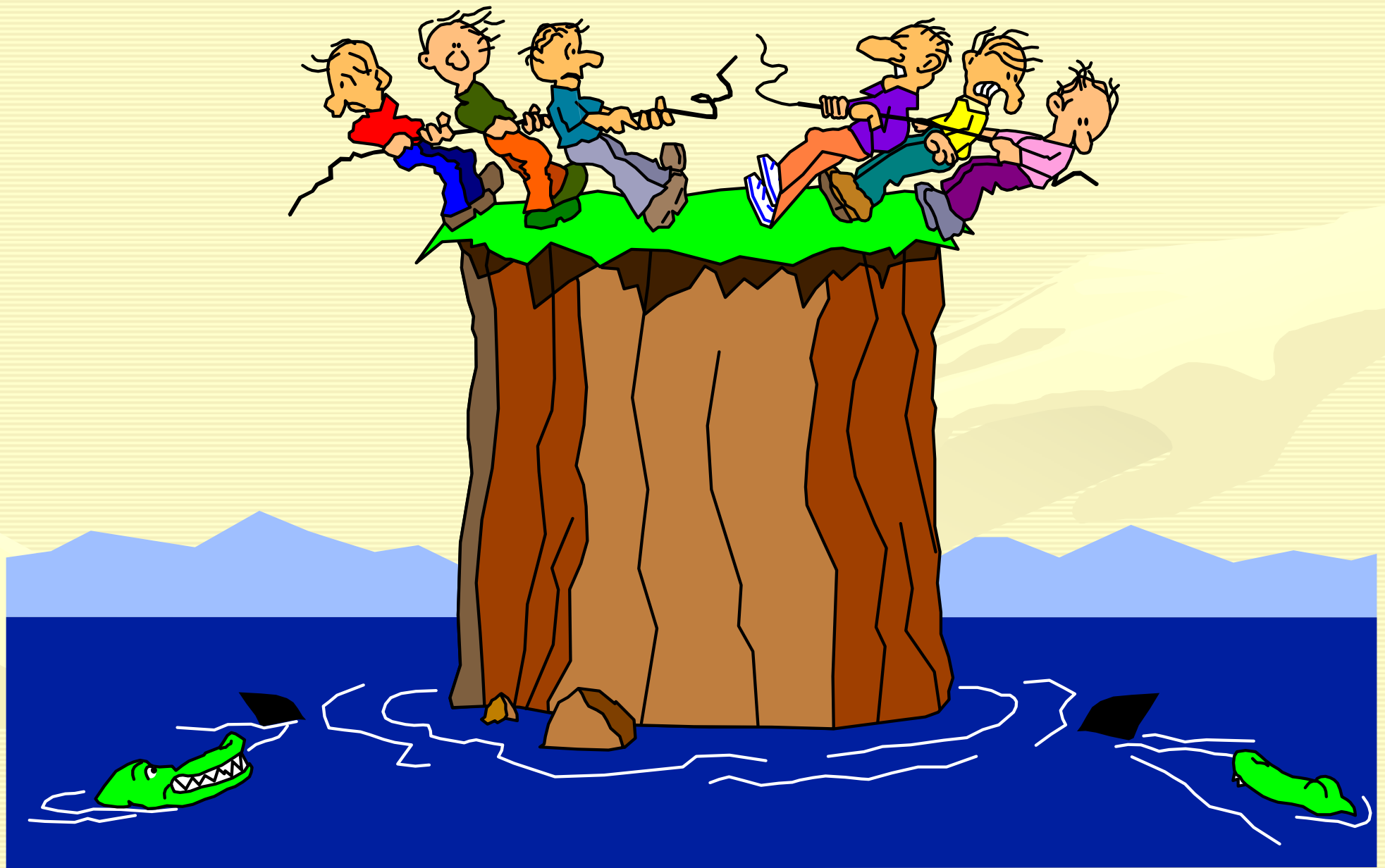
- User perception of security
  - User perception of quality of data
  - Timeliness of data
  - **Standards**
  - **Culture**
  - **Money**
- 
- A large, faint, light-yellow illustration of two hands shaking, symbolizing collaboration or agreement, is positioned in the background of the slide, behind the list of factors.

# Standards





# Culture

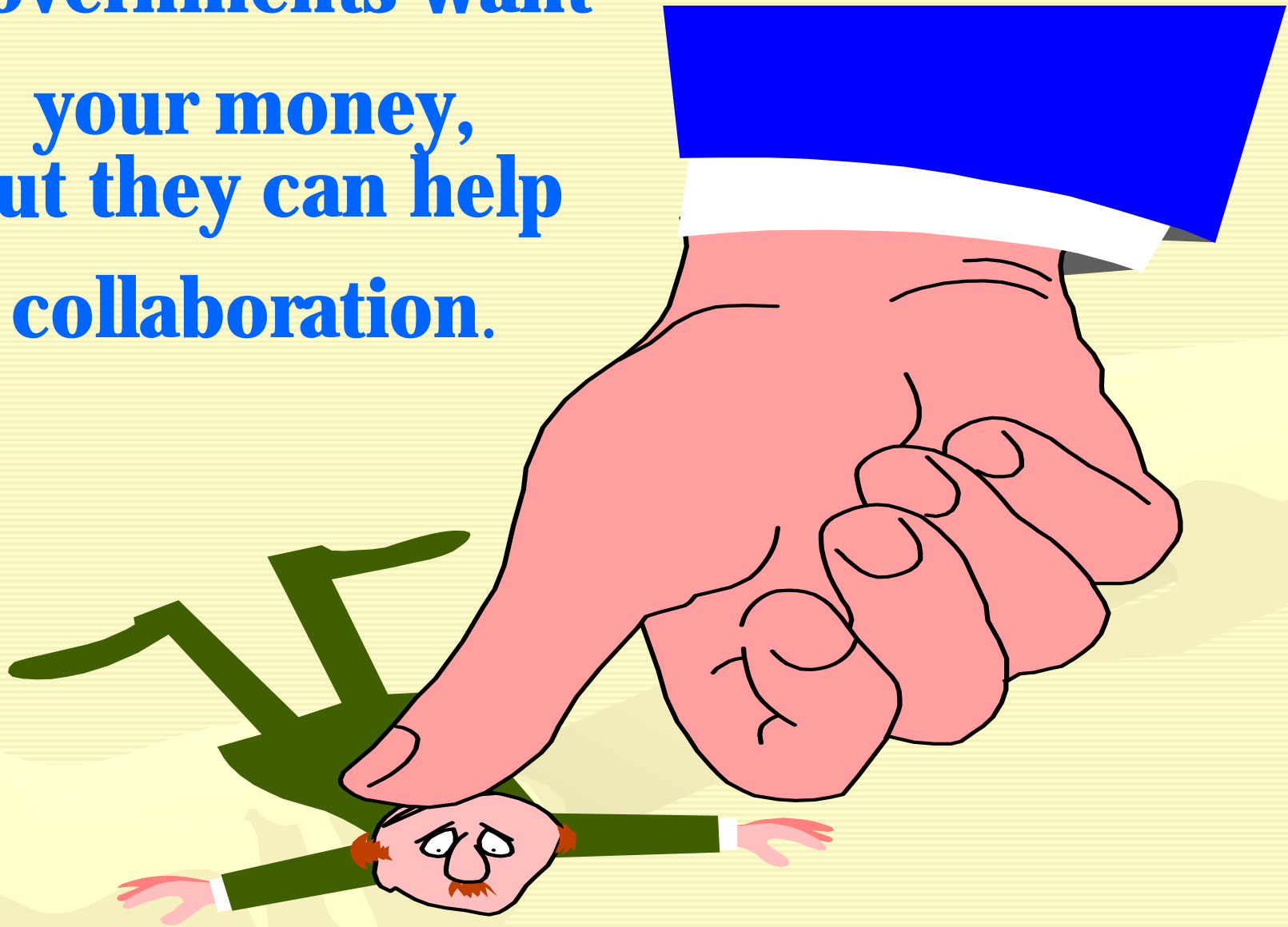


# Money

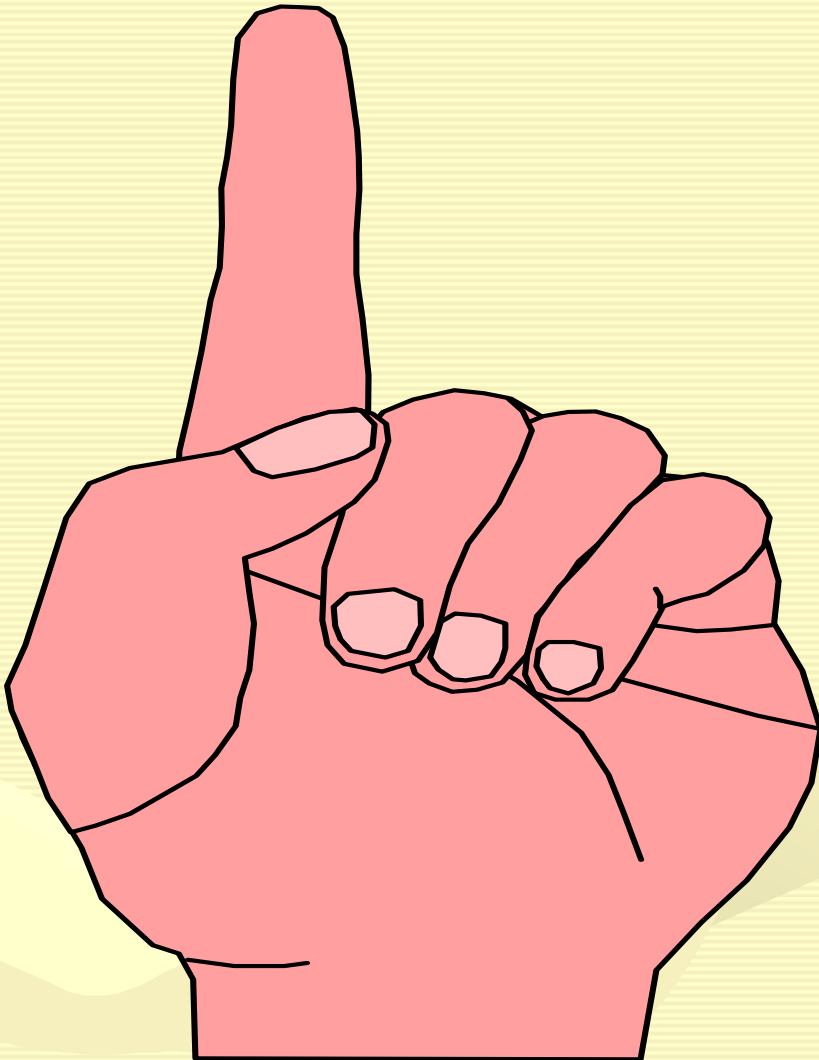
- Personal view



**Governments want  
your money,  
but they can help  
collaboration.**



# NIRVANA



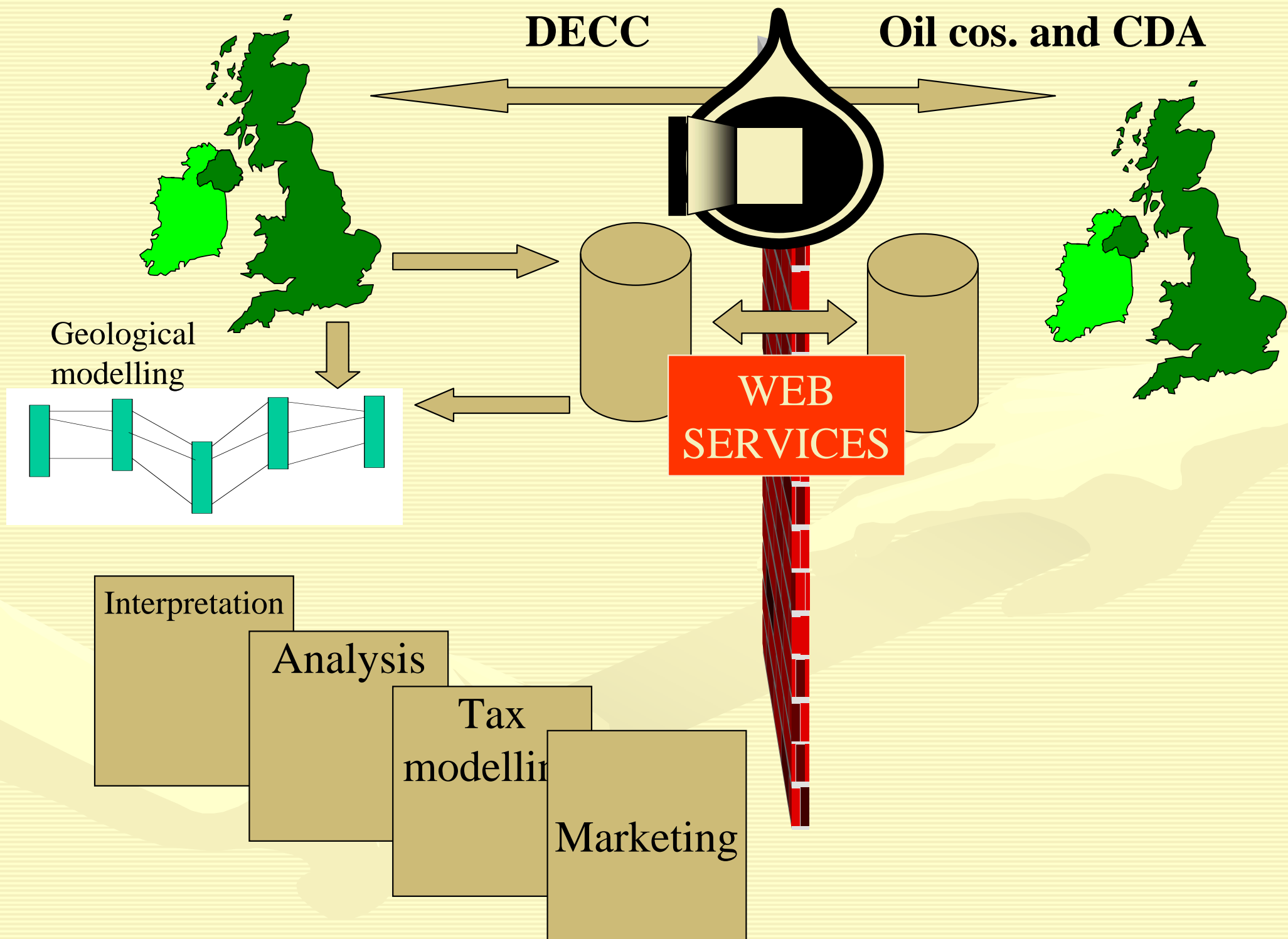
**All the data I want available**

**when I want it**

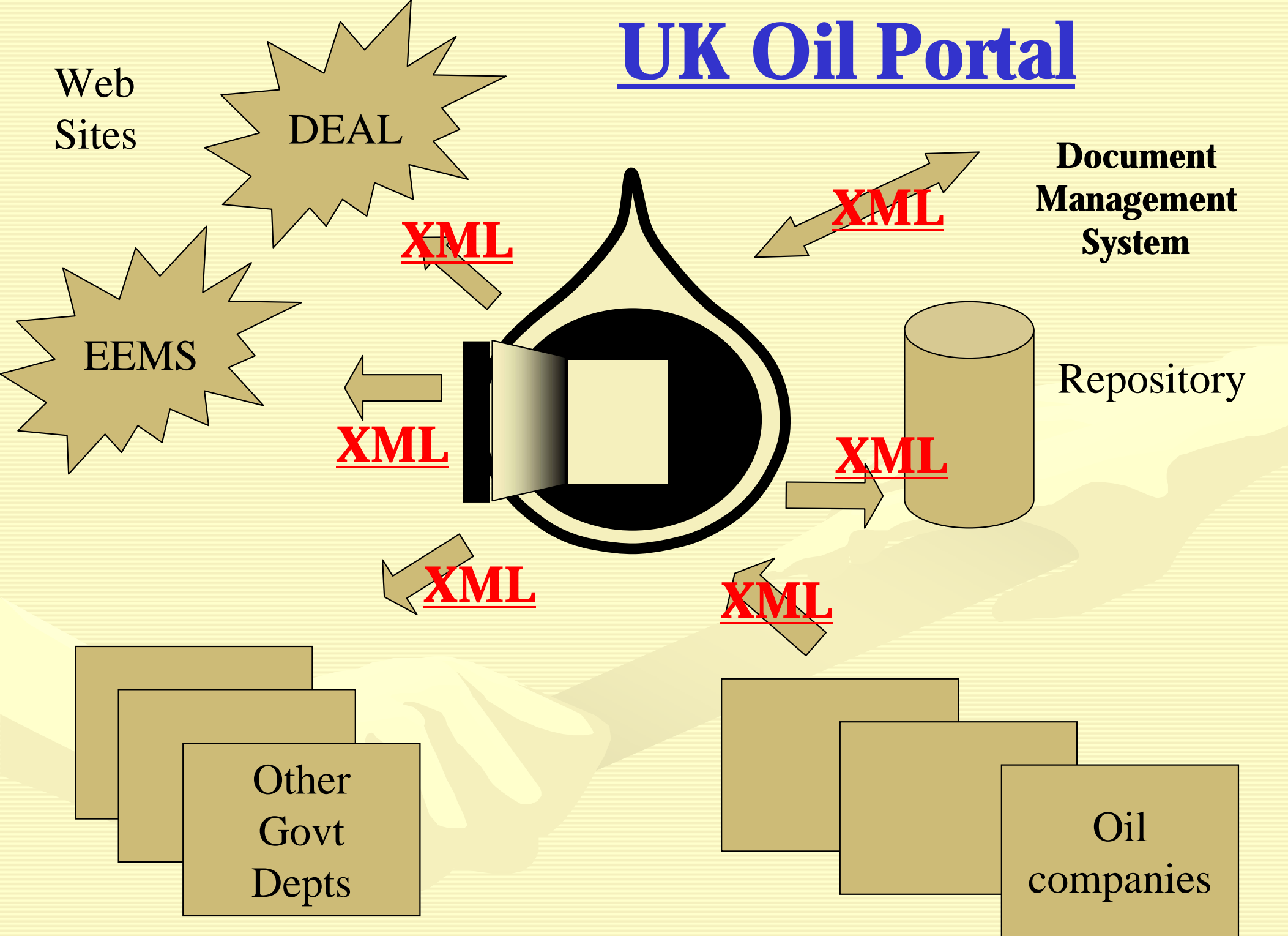
**in a form I can use**

**and correct**



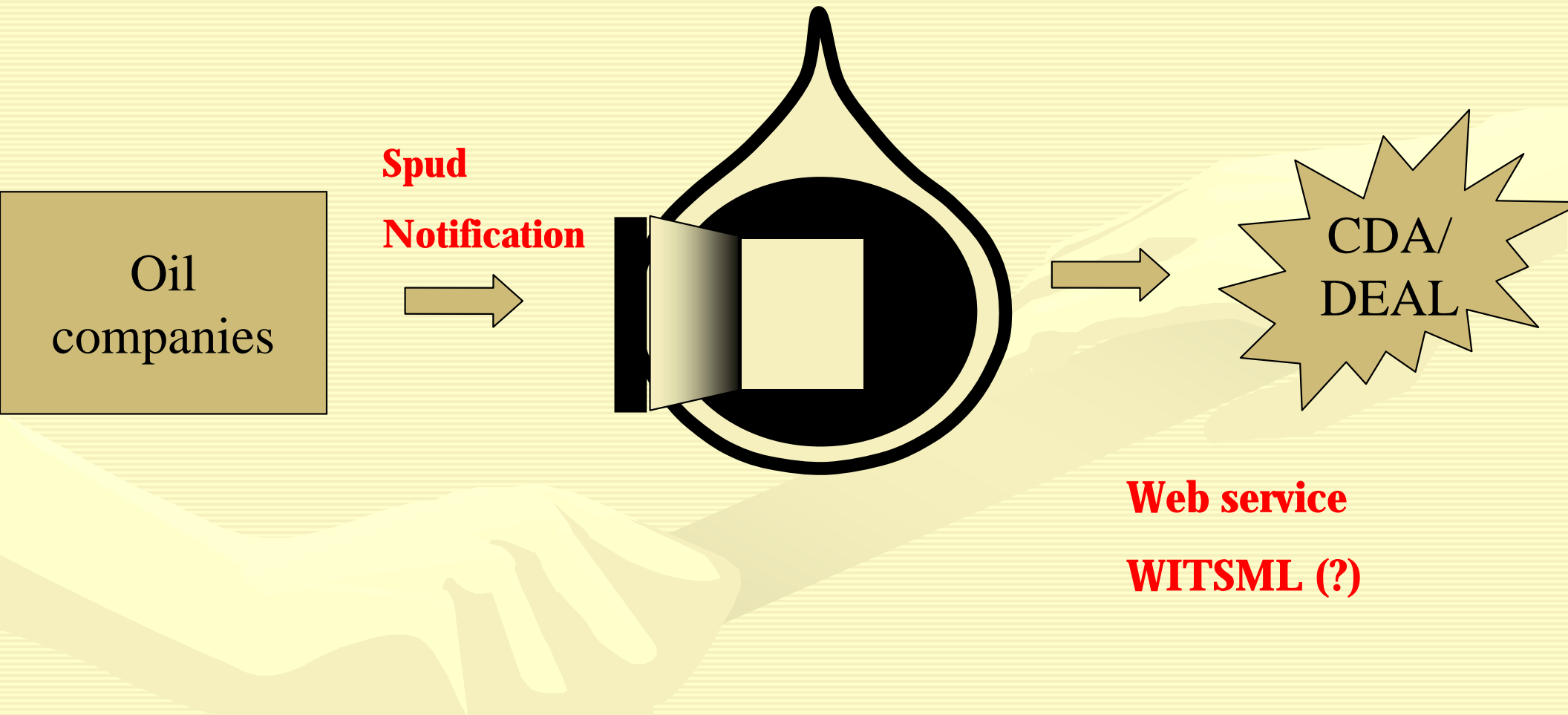


# UK Oil Portal



# Linking a Regulatory Body to an NDR

## Well numbering !!



Extend for : **Seismic Surveys, Licensing**, etc etc

# Sharing requires a common language

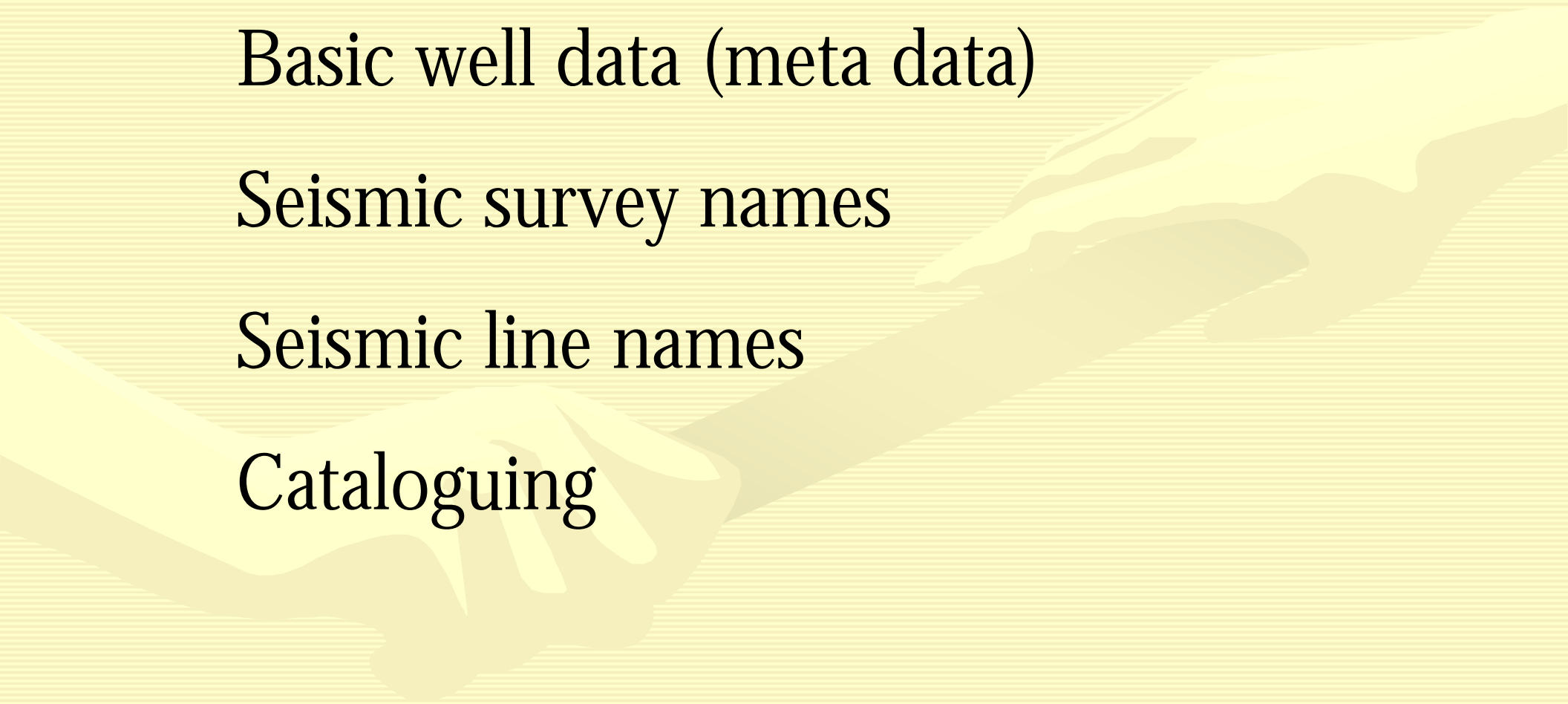
## Standards for

Basic well data (meta data)

Seismic survey names

Seismic line names

Cataloguing



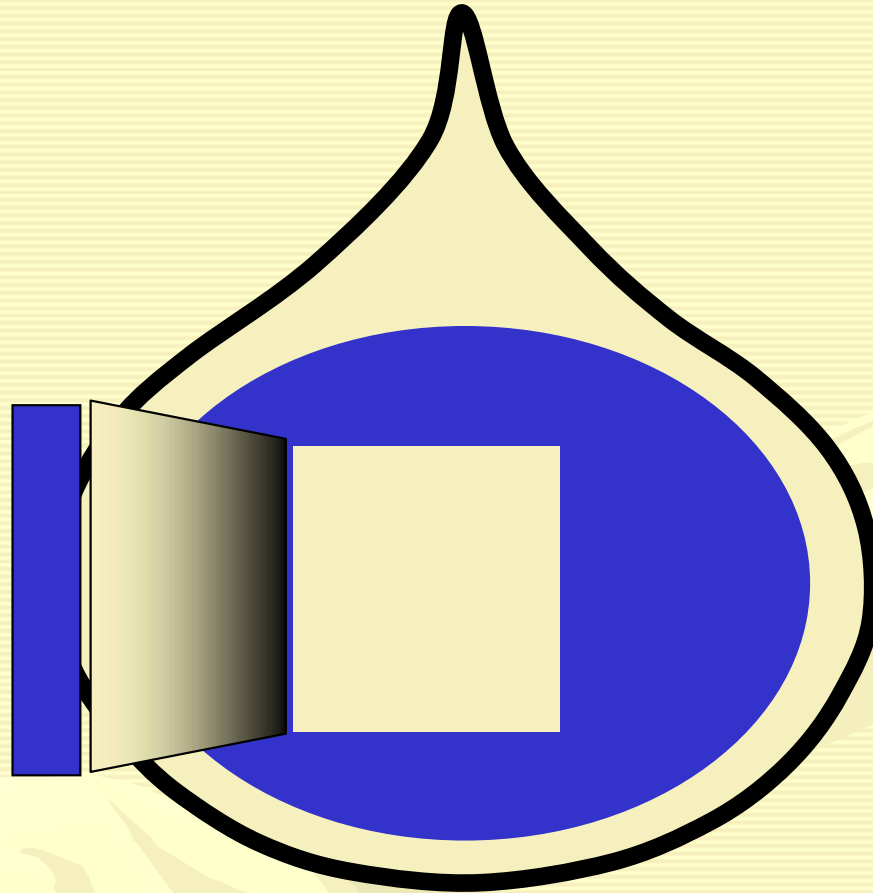


# A possible future – The DECC vision

- Portal software used elsewhere
- Cooperation between governments
- Easier to agree standards



# UK OIL PORTAL

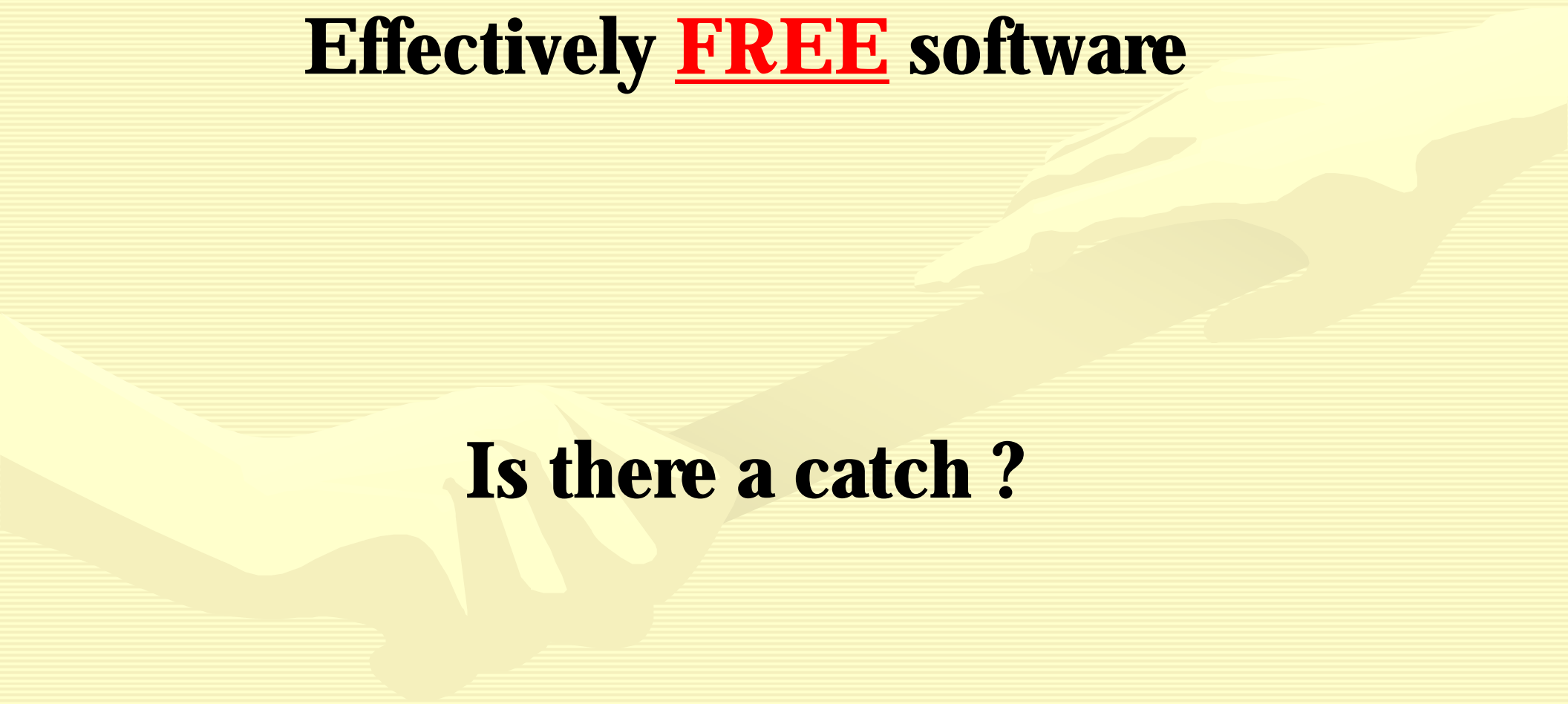


as Open Source [ [www.foxopen.org](http://www.foxopen.org) ]

# What is Open source ?

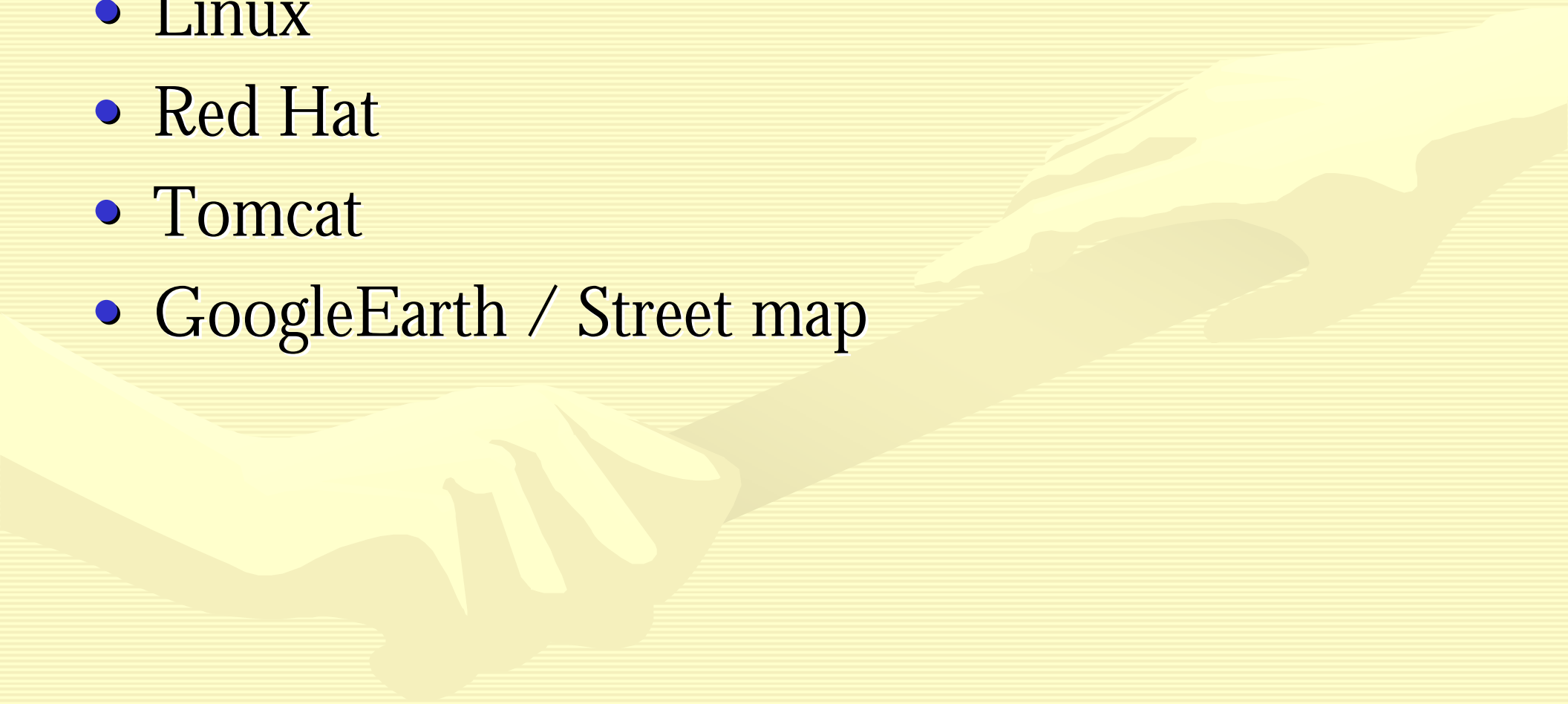
Effectively **FREE** software

Is there a catch ?



**..... but who has heard of**

- Apache
- Linux
- Red Hat
- Tomcat
- GoogleEarth / Street map

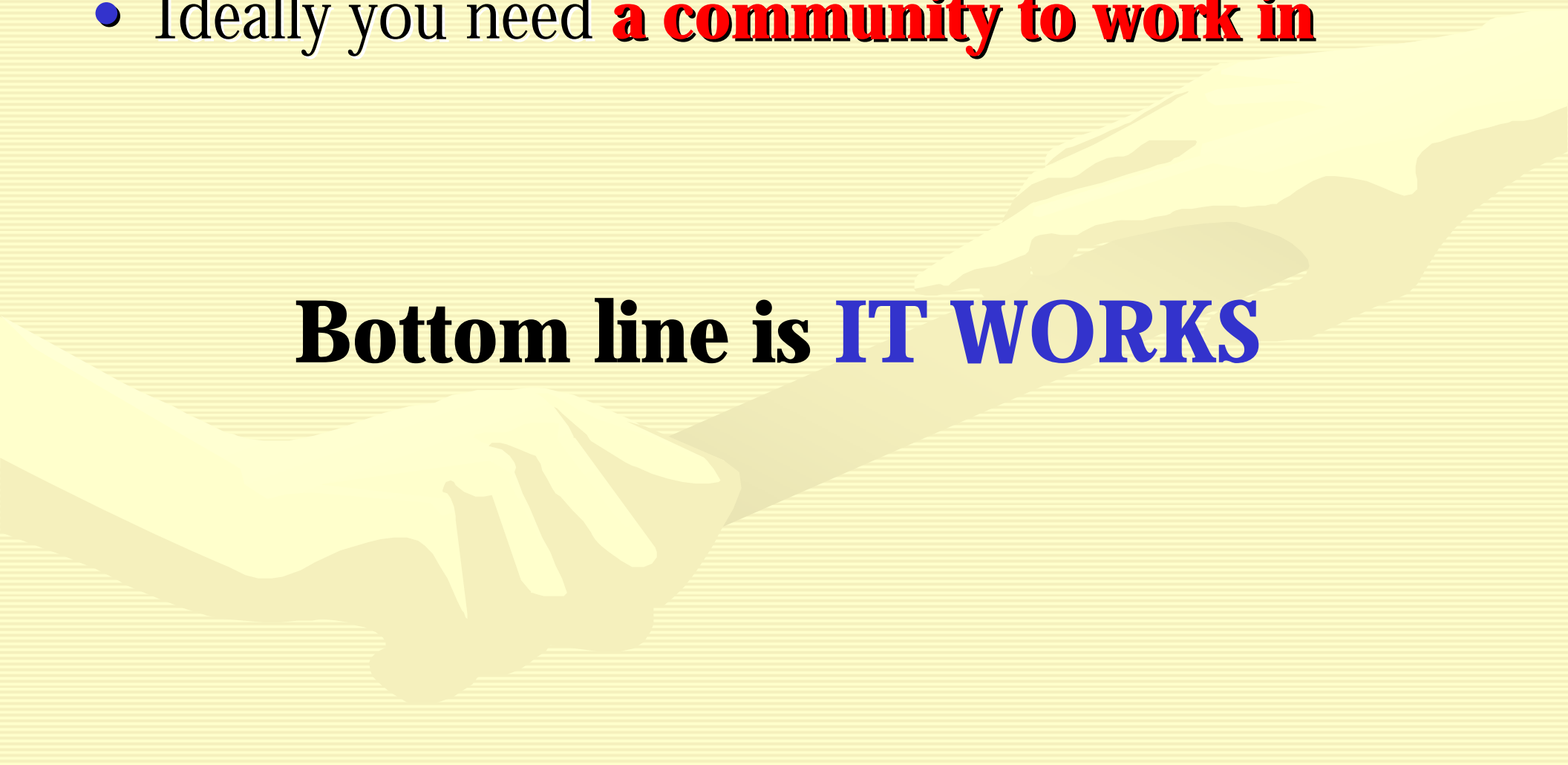




# Commodities are free but

- You need services to make them work
- Ideally you need **a community to work in**

**Bottom line is IT WORKS**



# Will Open Source techniques work in the oil industry ?

- For Geophysics, Reservoir Simulation etc

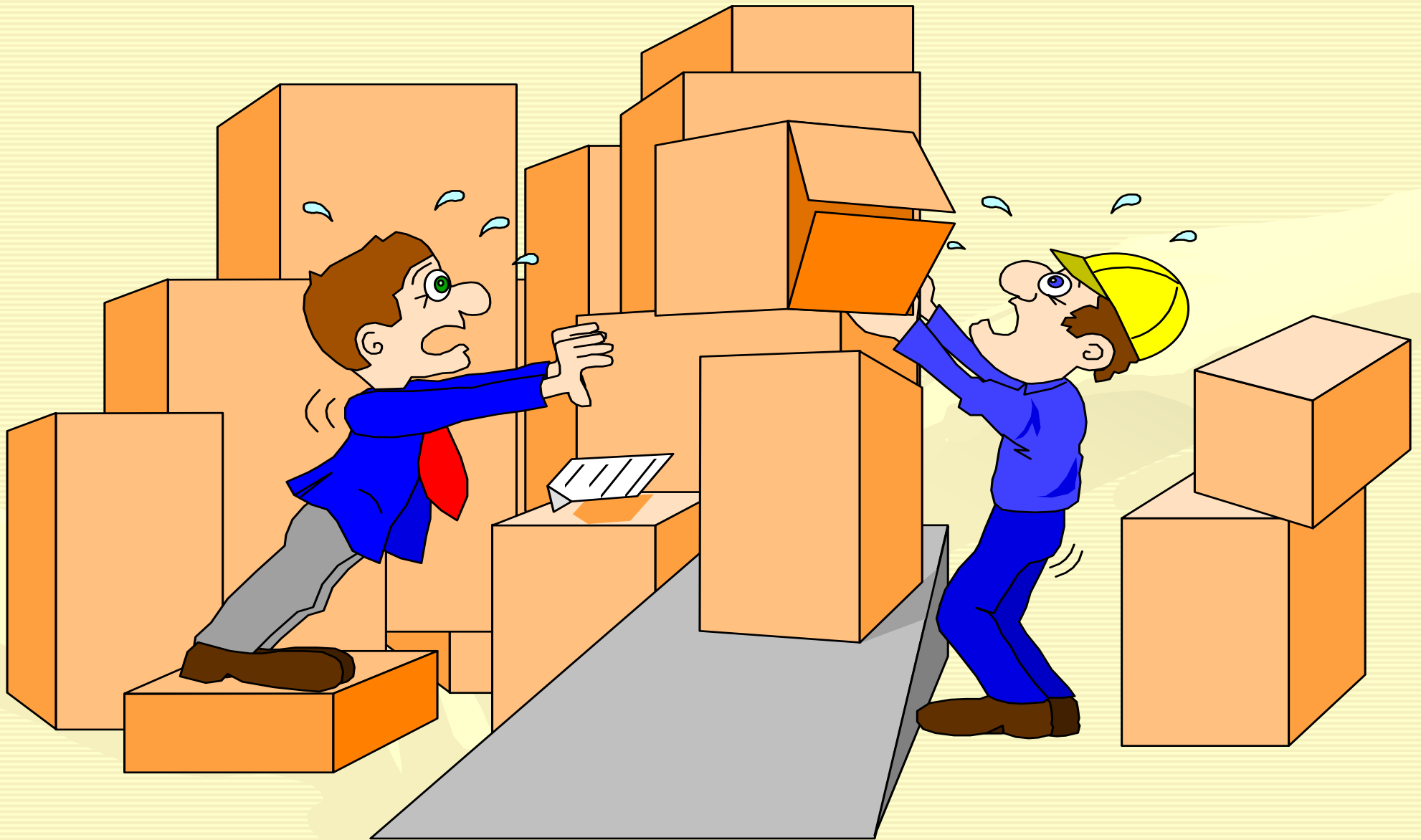
**NO**

- For meta data, data exchange, reference data,  
regulatory reporting

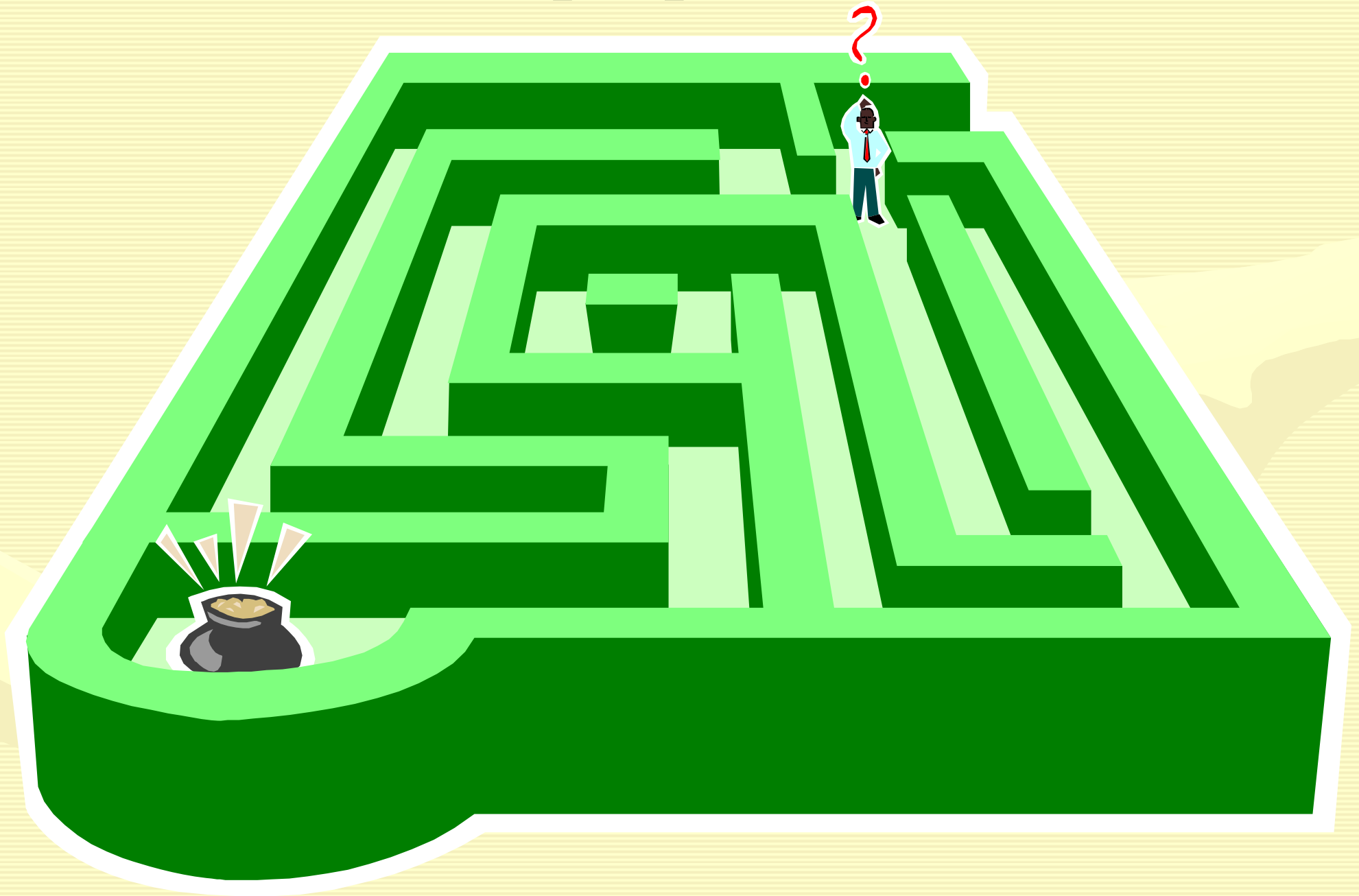
**YES – LET’S TRY – BUT HOW ?**



In the beginning there was .....



**.... but some people had an idea.**



**And now there is .....**

Tanzania

Angola

Ghana

Oman

Kazakhstan

Turkey

Malaysia

Kenya

Nova Scotia

China



Norway

UK

Holland

Russia

Siberia

Alberta

South Africa

USA

Namibia

Brazil

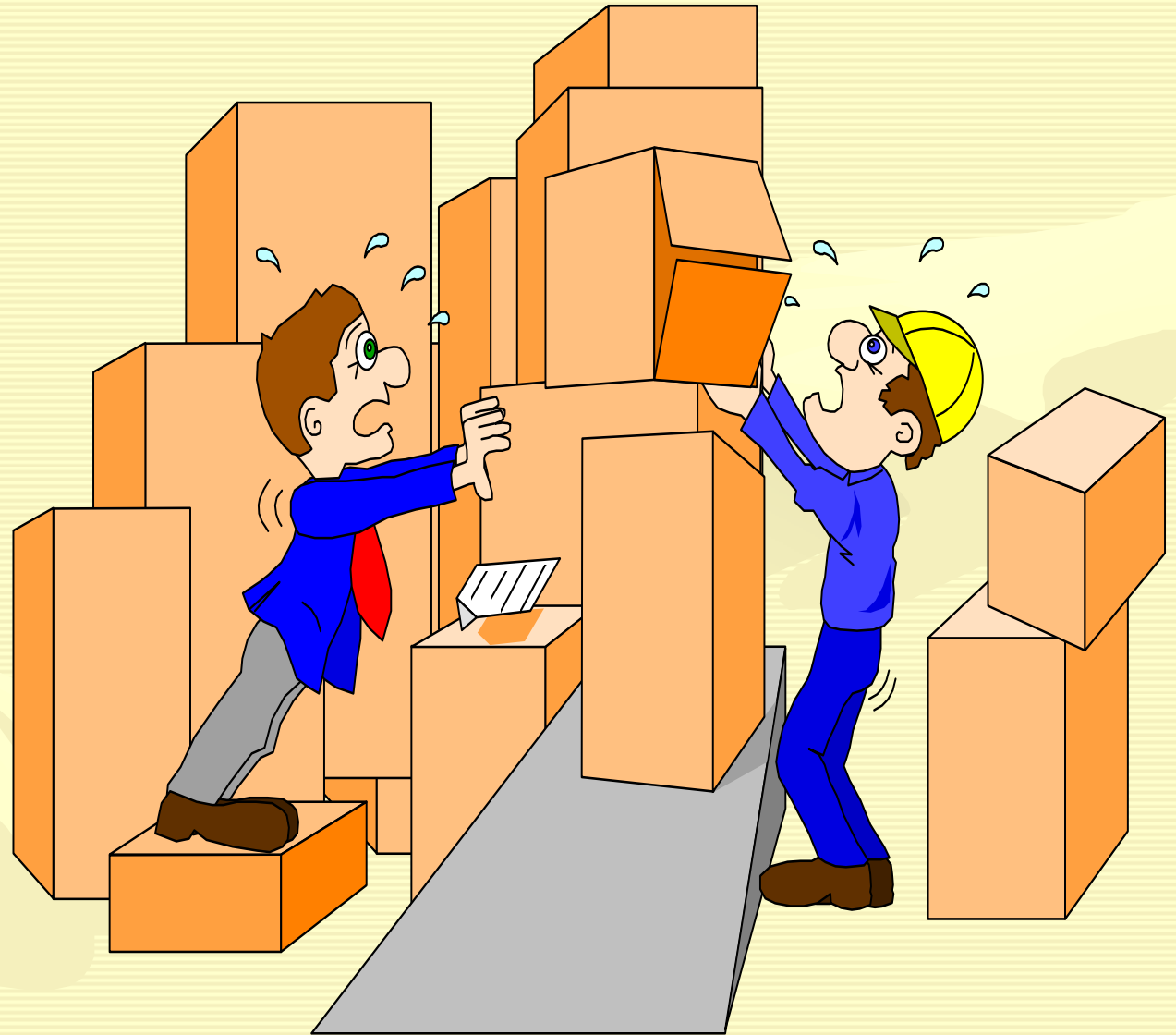
Columbia

New Zealand



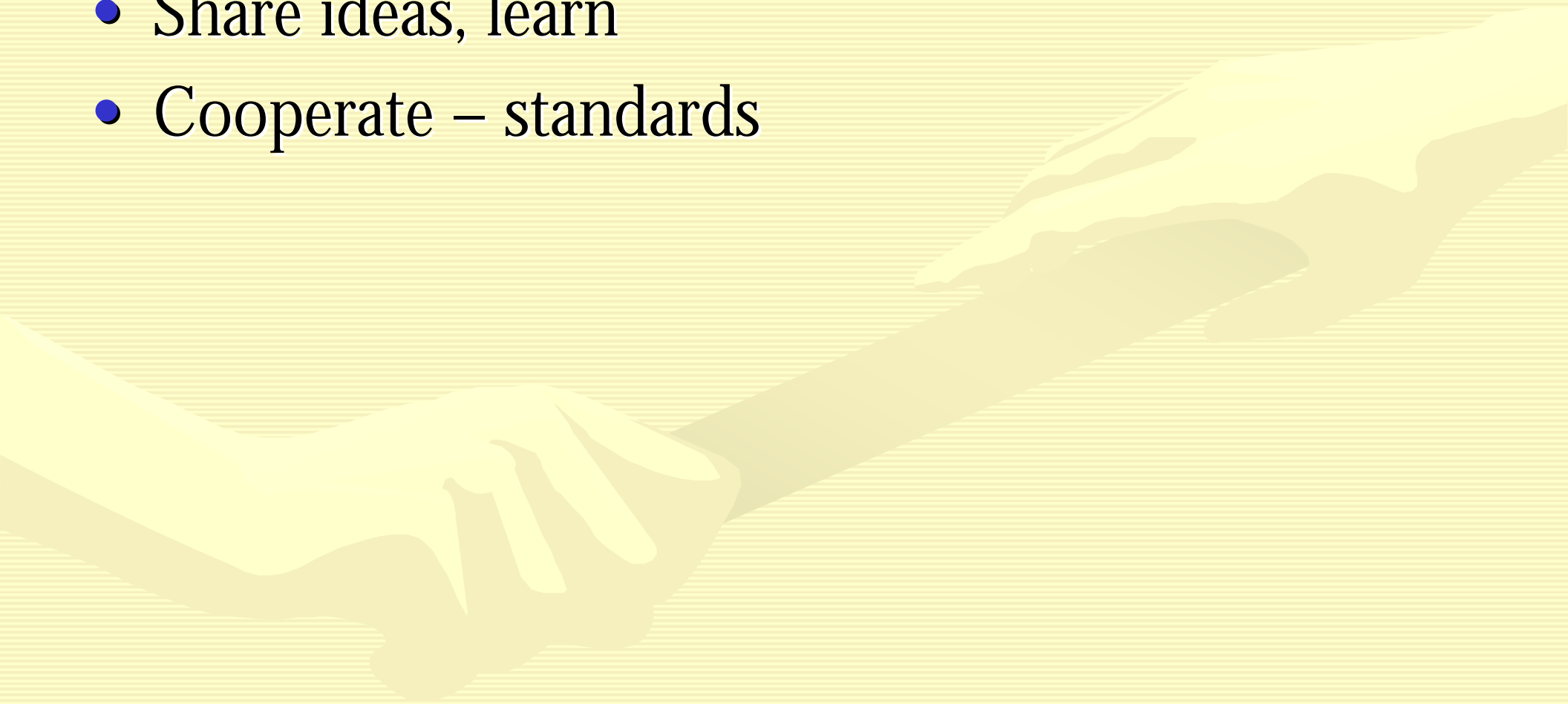
# NDR meetings

1. London
2. Norway
3. Canada
4. Norway
5. USA
6. Holland
7. Columbia
8. South Africa
9. India
10. Brazil
11. Malaysia (2012)



# Why have NDR meetings ?

- Meet other people doing same work
- Share ideas, learn
- Cooperate – standards

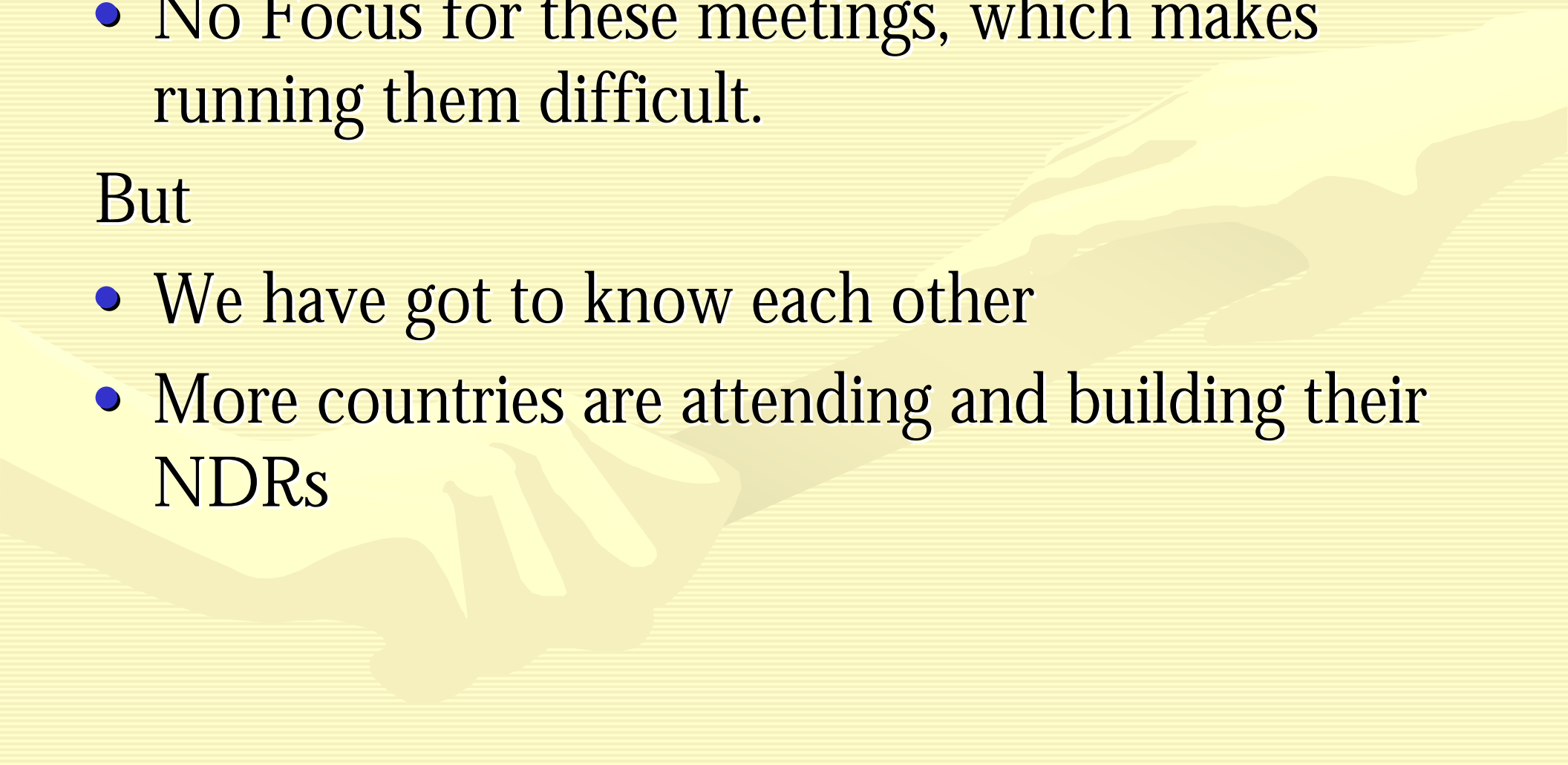


# Have we met these early ideals ?

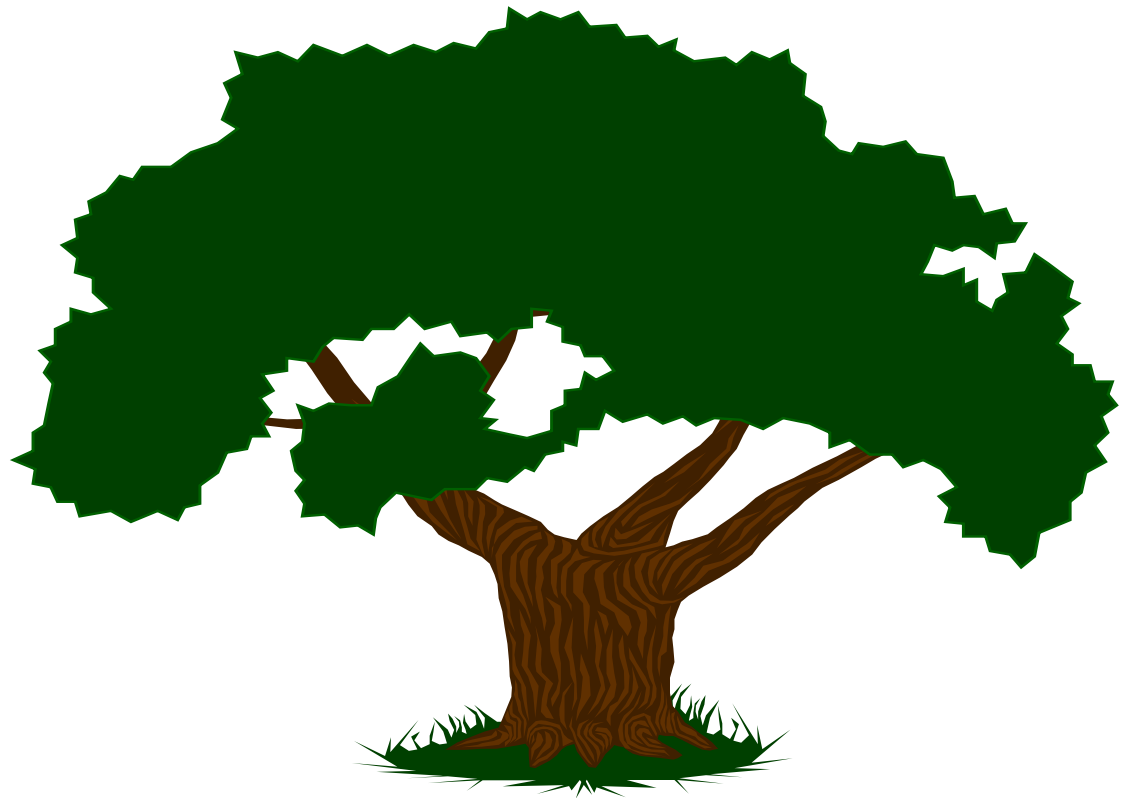
- Still only minimal cooperation
- No Focus for these meetings, which makes running them difficult.

But

- We have got to know each other
- More countries are attending and building their NDRs



# What can we do next ?





# energistics™

The Energy Standards  
Resource Centre

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# So what is proposed

- Set up E-Regulatory SIG via Energistics
- Energistics host a facilitation environment
- It can all happen on the web
- Communities form for specific projects
- Standards can emerge from parts of WITSML, PRODML etc
- [Energistics will “own” anything built]
- Anything deployed will be freely available
- Whole exercise completely open



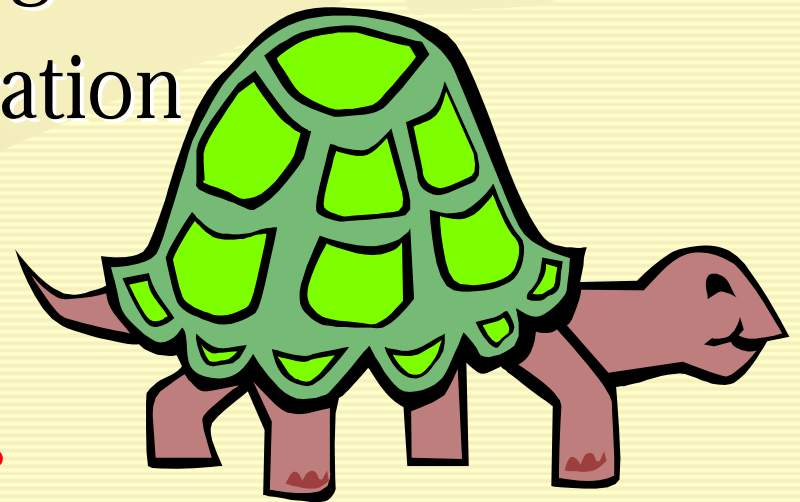
# What has happened

- E-Regulatory SIG embryonic
- UK Oil Portal offered freely
- Technology that built this **FOXOPEN** is now Open Source
- Huge desire for data exchange standards
- Trying to encourage cooperation amongst Regulatory Bodies

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**but** .....



# Contacts

[srobinson47@yahoo.co.uk](mailto:srobinson47@yahoo.co.uk)

[www.foxopen.com](http://www.foxopen.com) (Open source software site)

[www.og.dti.gov.uk](http://www.og.dti.gov.uk) (UK Oil Portal)

[www.cdal.com](http://www.cdal.com) (UK NDR)

[www.energistics.org](http://www.energistics.org) (Oil industry standards / NDR)

[www.fivium.co.uk](http://www.fivium.co.uk) (Portal consultancy)