

For your convenience, this is the PDF version of the original presentation at <http://dico.im/armchair-auditor>

# ARMCHAIR AUDITOR IN ACTION

Gianfranco Cecconi / @giacecco  
Digital Contraptions Imaginarium Ltd.

Presentation for the 21/3/2014 #odifridays lecture  
<http://dico.im/armchair-auditor>

# THE ARMCHAIR AUDITOR

"We're going to rip off that cloak of secrecy and extend transparency as far and as wide as possible. By bringing information out into the open, you'll be able to hold government and public services to account. (...) With a whole army of effective armchair auditors looking over the books, ministers in this government are not going to be able to get away with all the waste, the expensive vanity projects and pointless schemes that we've had in the past."

Podcast by the UK Prime Minister, 29 May 2010

# **ARMCHAIR AUDITOR IN ACTION**

or

# **ARMCHAIR AUDITOR INACTION?**

[www.digital  
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# INACTION

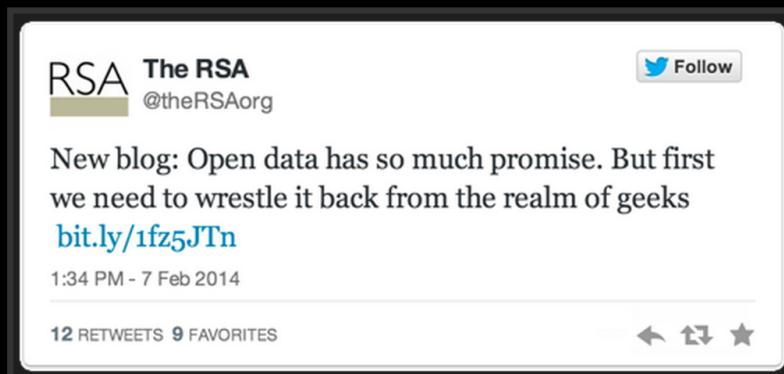
## 1) BECAUSE "OPEN DATA IS AN ABSTRACT ISSUE"

"(...) the public currently do not understand how open data applies to them or what they care about; research (...) has found that awareness is low in part because open data is perceived as an abstract issue, with unclear benefits to everyday life."

Involve's submission to the Public Administration Select Committee  
question paper on "Statistics and Open Data"

# INACTION

## 2) BECAUSE "GEEKS ALIENATE PEOPLE"



RSA blog

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Environment > Shale gas and fracking

## Fracking companies entitled to licences on more than 60% of British land

Assessment finds major fracking effort would create jobs and income for local communities, but require thousands of wells to be drilled and dozens of daily tanker journeys

Damian Carrington

theguardian.com, Tuesday 17 December 2013 15.57 GMT

[Jump to comments \(744\)](#)



Residential properties stand surrounded by trees in an area proposed for shale gas exploration in Fernhurst, West Sussex. Photograph: Matthew Lloyd/Getty Images

Two-thirds of the UK's land will be available for fracking companies to license, a [government map published on Tuesday](#) shows, with new areas opened up in the Midlands, Cumbria and Wales.

**www.digitalcontraptions.co.uk** open data institute had expressed interest in new resources and up to 150 applications are expected, which could imaginariumpd 15% of the UK.

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### Environment

Shale gas and fracking · Energy · Fossil fuels · Gas · Green politics · Water · Pollution

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Salford anti-fracking camp enjoys local support

Mince pies and Christmas lunch as residents join protesters in Barton Moss to fight against environmental

### Today's best video



**Author Jacqueline Wilson on illustrator Nick Sharratt**

Tracy Beaker and Hetty Feather author Jacqueline Wilson talks to illustrator Nick Sharratt about their collaborative process



### What you should watch this week

Andrew Pulver recommends Roberto Rossellini's 1945 drama Rome, Open City



### Wearable technology

Oliver Wainwright meets the world's most connected human at a London tech exhibition



### MH370: details of possible plane debris sighting

Australian Maritime Safety Authority press conference in Canberra

The Observer Ethical Awards 2014  
<http://dico.im/1jFtXP8>

**The Observer**



1425

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some sense of scale to the effects considered, low and high activity scenarios were developed by industry practice and research literature. For conventional oil and gas this meant  
ing the effects of:  
- new wells being awarded;

- between 50 and 150 licences being awarded;
  - between 5 and 30 test boreholes being drilled; and
  - between 3 and 6 well pads being developed (each having two wells and occupying up to 3 hectare of land per pad).

unconventional oil and gas, this meant considering the effects of:

  - between 50 and 150 licences being awarded;
  - between 20 and 240 test boreholes being drilled;
  - between 30 and 120 well pads being developed (each having between 6-24 wells and occupying up to 3 hectare of land per pad);
  - between 10,000 and 25,000 cubic metres of water being required for hydraulic fracturing of each well and each well being re-fractured once;
  - between 30% to 75% of the water injected during fracturing returning as flowback;
  - between 14-51 vehicle movements a day during Stages 2-3; and
  - an assumed production of 3 billion cubic feet of gas per well (over the lifetime of the well which is assumed to be 20 years).

- between 14 & 30 years.
- an assumed production of 3 billion cubic feet of gas per annum, which is assumed to be 20 years).

Virgin coalbed methane exploration and production activity has not been modelled separately from shale gas and oil. This is on the basis that after over a decade of exploration work in the UK, it is considered unlikely that there will be any large increase in the current, relatively moderate, levels of activity.

Issues that could follow on from licensing have been considered both generically and, in the context of five broad geographic areas (SEA Areas), The five SEA Areas are as follows:

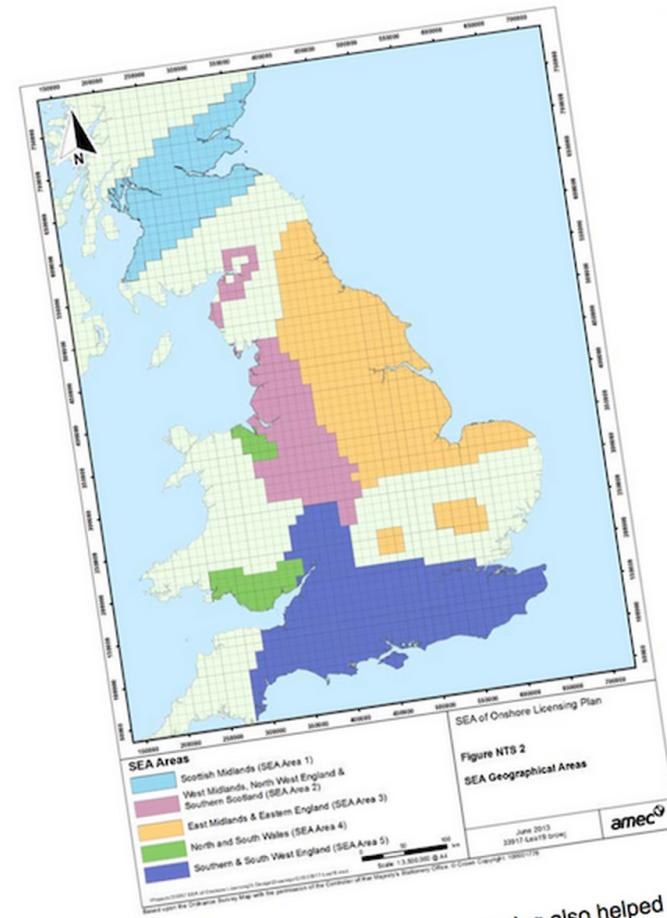
- ts of activities that could follow on from licensing have been considered both generically and, in help better inform the assessment, in the context of five broad geographic areas (SEA Areas), due to geology are most likely to contain hydrocarbons. The five SEA Areas are as follows:

  - SEA Area 1: Scotland (including the Inner Hebrides);
  - SEA Area 2: West Midlands, North West England and Southern Scotland;
  - SEA Area 3: Wales (Afon Dyfrdwy); and

- SEA Area 5: Southern and South West Europe NTS 2.

- Areas are shown in Figure NTS 2.

Figure NTS 2 SEA Areas



Consideration of those activities that could follow on from licensing also helped inform the subsequent assessment of the following draft Licensing Plan alternatives:

- a licensing programme as proposed.

1. To proceed with the licensing programme as proposed.  
2. To restrict the area licensed.

2. To restrict the use of any areas for licensing.

<http://dico.im/1evsV7D>



20140227\_DECC\_ON\_Licensed\_Areas.shp ×

```
1 0000 270a 0000 0000 0000 0000 0000 0000  
2 0000 0000 0000 0000 0001 d488 e803 0000  
3 0500 0000 0000 0000 00bd 0f41 daa7 7a7c  
4 975a f240 e43d dbdc d079 2341 02e1 2800  
5 f0a7 2c41 0000 0000 0000 0000 0000 0000  
6 0000 0000 0000 0000 0000 0000 0000 0000  
7 0000 0000 0000 0001 0000 0040 0500 0000  
8 0000 0000 800d 1d41 0000 0000 a05b 1d41  
9 0000 0000 a05b 1d41 0000 0000 209a 1d41  
10 0100 0000 0500 0000 0000 0000 0000 0000  
11 800d 1d41 0000 0000 a05b 1d41 0000 0000  
12 800d 1d41 0000 0000 209a 1d41 0000 0000  
13 a05b 1d41 0000 0000 209a 1d41 0000 0000  
14 a05b 1d41 0000 0000 a05b 1d41 0000 0000  
15 800d 1d41 0000 0000 a05b 1d41 0000 0002  
16 0000 0040 0500 0000 0000 0000 209a 1d41  
17 0000 0000 00cf 1c41 0000 0000 00c9 1d41  
18 0000 0000 c02c 1d41 0100 0000 0500 0000  
19 0000 0000 0000 0000 00c9 1d41 0000 0000  
20 00cf 1c41 0000 0000 209a 1d41 0000 0000  
21 00cf 1c41 0000 0000 209a 1d41 0000 0000  
22 c02c 1d41 0000 0000 00c9 1d41 0000 0000  
23 c02c 1d41 0000 0000 00c9 1d41 0000 0000  
24 00cf 1c41 0000 0003 0000 0040 0500 0000  
25 0000 0000 c05e 1d41 0000 0000 0001 1d41  
26 0000 0000 108c 1d41 0000 0000 001a 1d41  
27 0100 0000 0500 0000 0000 0000 0000 0000  
28 c05e 1d41 0000 0000 001a 1d41 ae18 c4ff  
29 0f8c 1d41 0000 0000 001a 1d41 0000 0000  
30 108c 1d41 0000 0000 0001 1d41 1ca3 0f00  
31 c05e 1d41 0000 0000 0001 1d41 0000 0000  
32 c05e 1d41 0000 0000 001a 1d41 0000 0004  
33 0000 0040 0500 0000 0000 0000 0027 1f41  
34 0000 0000 e080 1c41 0000 0000 a04f 1f41  
35 0000 0000 a093 1c41 0100 0000 0500 0000  
36 0000 0000 0000 0000 a04f 1f41 0000 0000  
37 e080 1c41 0000 0000 0027 1f41 0000 0000  
38 e080 1c41 0000 0000 0027 1f41 0000 0000  
39 a093 1c41 0000 0000 a04f 1f41 0000 0000  
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47 a028 1e41 0000 0000 a088 1e41 0000 0000  
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50 3831 1e41 0000 0000 a8b8 1e41 0000 0000
```

20140227\_DECC\_ON\_Licensed\_Areas.dbf ×

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4 0b00 0000 0000 0000 0000 0000 0000 0000  
5 4153 5349 474e 535f 4944 004e 0000 0000  
6 0b00 0000 0000 0000 0000 0000 0000 0000  
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8 1400 0000 0000 0000 0000 0000 0000 0000  
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12 1000 0000 0000 0000 0000 0000 0000 0000  
13 4f50 4552 4154 4f52 0000 0043 0000 0000  
14 2800 0000 0000 0000 0000 0000 0000 0000  
15 524f 554e 4400 0000 0000 004e 0000 0000  
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17 4c49 4345 4e43 455f 4153 0043 0000 0000  
18 3200 0000 0000 0000 0000 0000 0000 0000  
19 0d20 2020 2020 2020 2020 3120 2020  
20 2020 2020 2020 3234 414c 3030 3620 2020  
21 2020 2020 2020 2020 2020 414c 2020  
22 2020 2020 2020 2020 2020 2020 2020  
23 2020 2020 5649 4b49 4e47 2020 2020  
24 2020 2020 2020 2020 2020 2020 2020  
25 2020 2020 2020 2020 2020 2020 2020  
26 2020 2020 2020 3041 4c30 3036 2020  
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34 5649 4b49 4e47 2020 2020 2020 2020  
35 2020 2020 2020 2020 2020 2020 2020  
36 2020 2020 2020 2020 2020 2020 2020  
37 2020 3050 4c30 3830 2041 7265 6120 3220  
38 2020 2020 2020 2020 2020 2020 2020  
39 2020 2020 2020 2020 2020 2020 2020  
40 2020 2020 2020 2020 2020 2020 2020  
41 3320 2020 2020 2020 3239 444c 3030  
42 3520 2020 2020 2020 2020 2020 2020  
43 444c 2020 2020 2020 2020 2020 2020  
44 2020 2020 2020 2020 5649 4b49 4e47  
45 2020 2020 2020 2020 2020 2020 2020  
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20140227\_DECC\_ON\_Licensed\_Areas.shp.xml ×

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xmlns:gts="http://www.isotc211.org/2005/gts"  
xmlns:gco="http://www.isotc211.org/2005/gco"  
xmlns:geonet="http://www.fao.org/geonetwork"  
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http://eden.ign.fr/xsd/isotc211/isofull/20090316/gmx/gmx.xsd">  
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xmlns:gmx="http://www.isotc211.org/2005/gmx">  
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<gmd:nilReason>
```

 **Gianfranco Cecconi** @giacecco 23 Dec  
Help me making @DECCgovuk's #fracking licensing maps interactive and their data machine-readable dico.im/19H1OEf #SEA #OpenData

 **DECC**  @DECCgovuk 

Hi @giacecco. Interactive maps are available via [ukogl.org.uk](http://ukogl.org.uk) - select the DECC view. Thanks.

11:51 AM - 23 Dec 2013

1 RETWEET 1 FAVORITE   

 **Gianfranco Cecconi** @giacecco 23 Dec  
@DECCgovuk Thanks great, I see the existing licensed areas at the address you shared. Are you planning to keep those up to date?

 **DECC**  @DECCgovuk 

@giacecco Yes, both UKOGL and the DECC website - [gov.uk/oil-and-gas-on...](http://gov.uk/oil-and-gas-on...) - will be kept up to date. Thanks.

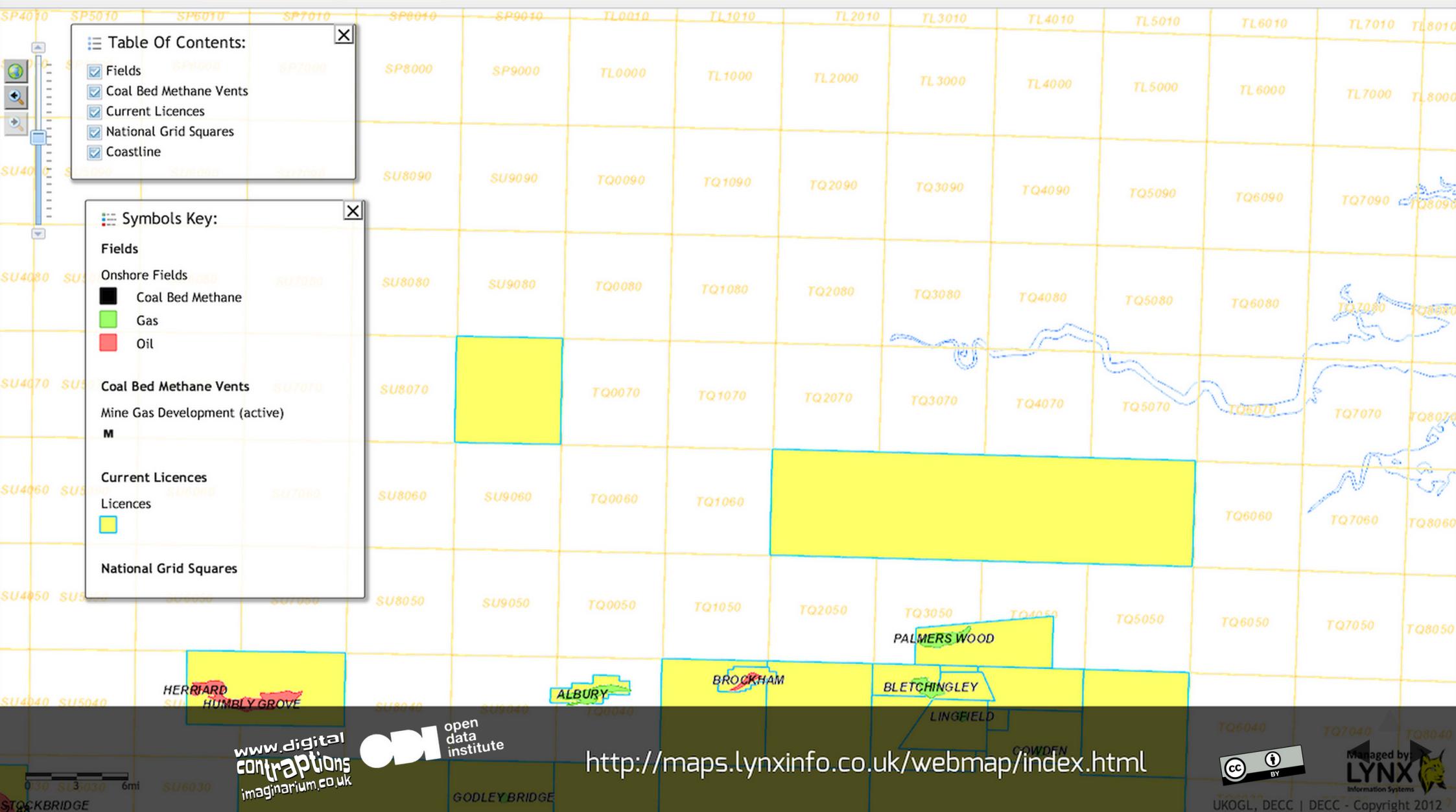
12:59 PM - 23 Dec 2013

1 FAVORITE   

# UK Onshore Geophysical Library - DECC Licences

Latest news: • 13 Feb 2014 - Prospecting Licences  
 • 28 Jan 2014 - Web Map Upgrade  
 UKOGL Info • 24 Jan 2014 - Regional Profiles Seminar

UKOGL DECC Historic Table Of Contents Symbols Key Coordinates PDF Link to Original DECC PDF



# REALLY?

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[imaginarium.co.uk](http://www.imaginarium.co.uk)



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# I MUST BUILD A BETTER MAP!

- Checked if anyone got there first
- Studied the DECC documentation (with moderation)
- Surveyed all data related to the above
- Surveyed all tools I could use
- Asked DECC for what I was missing
- [ the geeky data science part ]

... and...

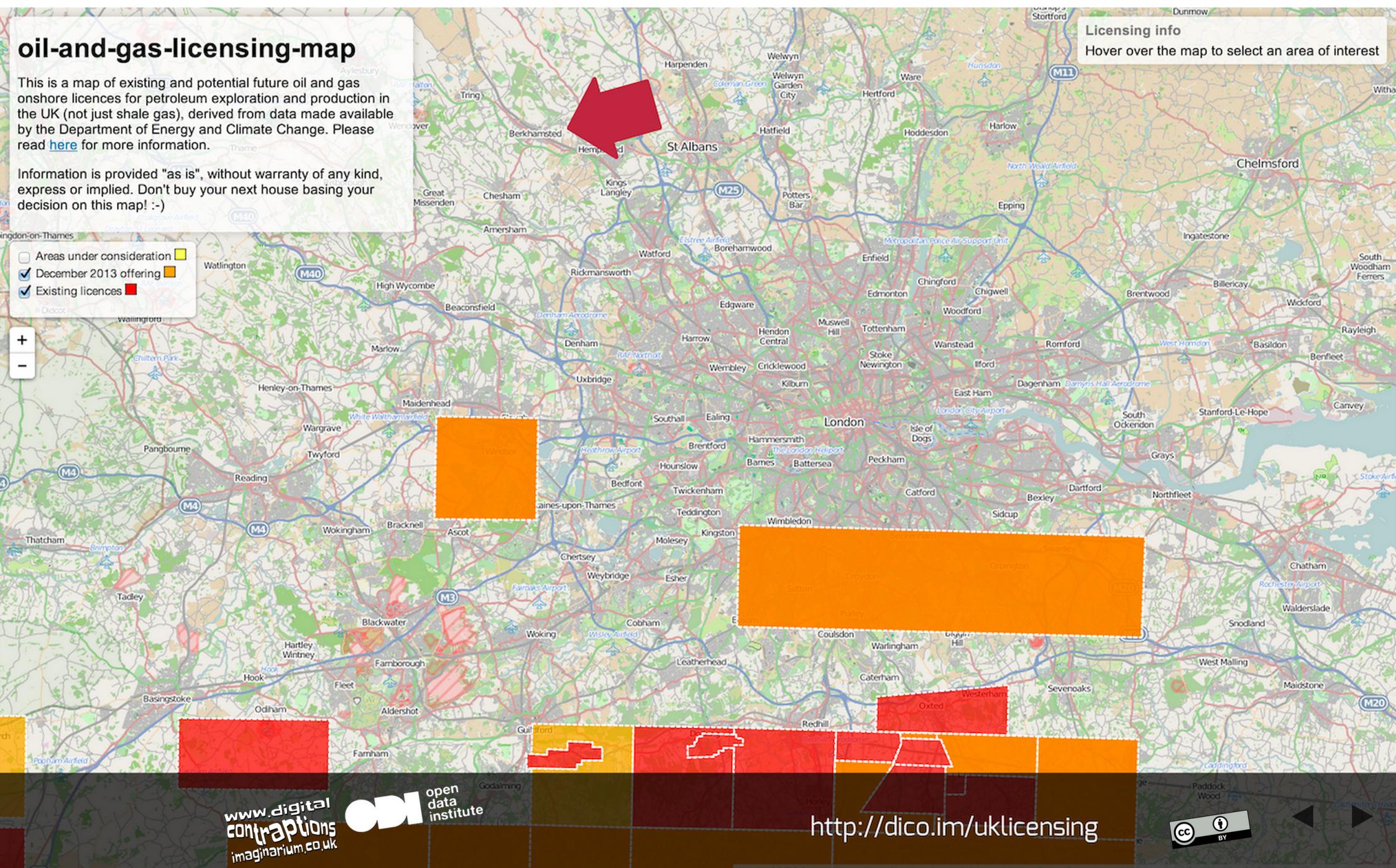
# oil-and-gas-licensing-map

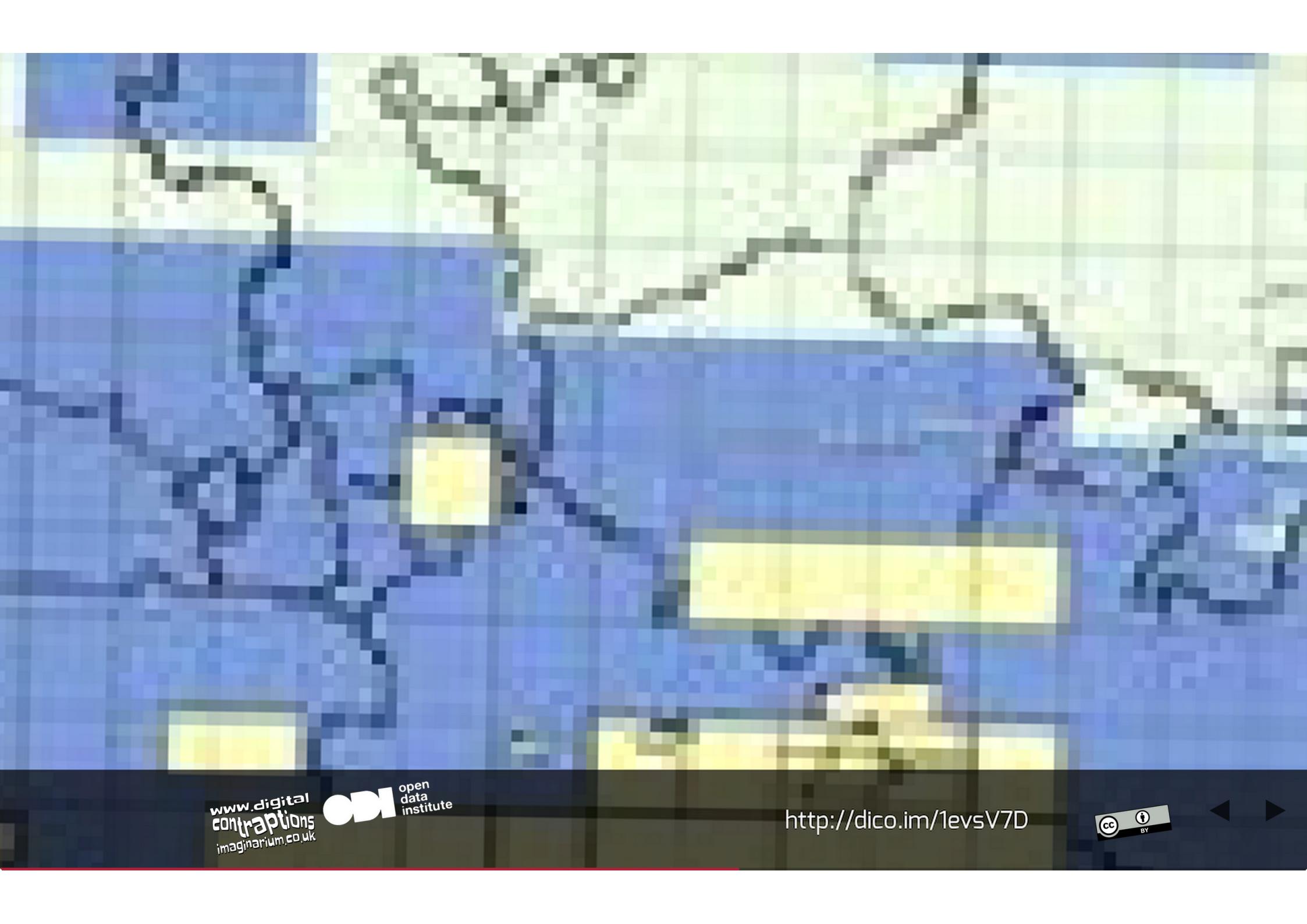
This is a map of existing and potential future oil and gas onshore licences for petroleum exploration and production in the UK (not just shale gas), derived from data made available by the Department of Energy and Climate Change. Please read [here](#) for more information.

Information is provided "as is", without warranty of any kind, express or implied. Don't buy your next house basing your decision on this map! :-)

## Licensing info

Hover over the map to select an area of interest





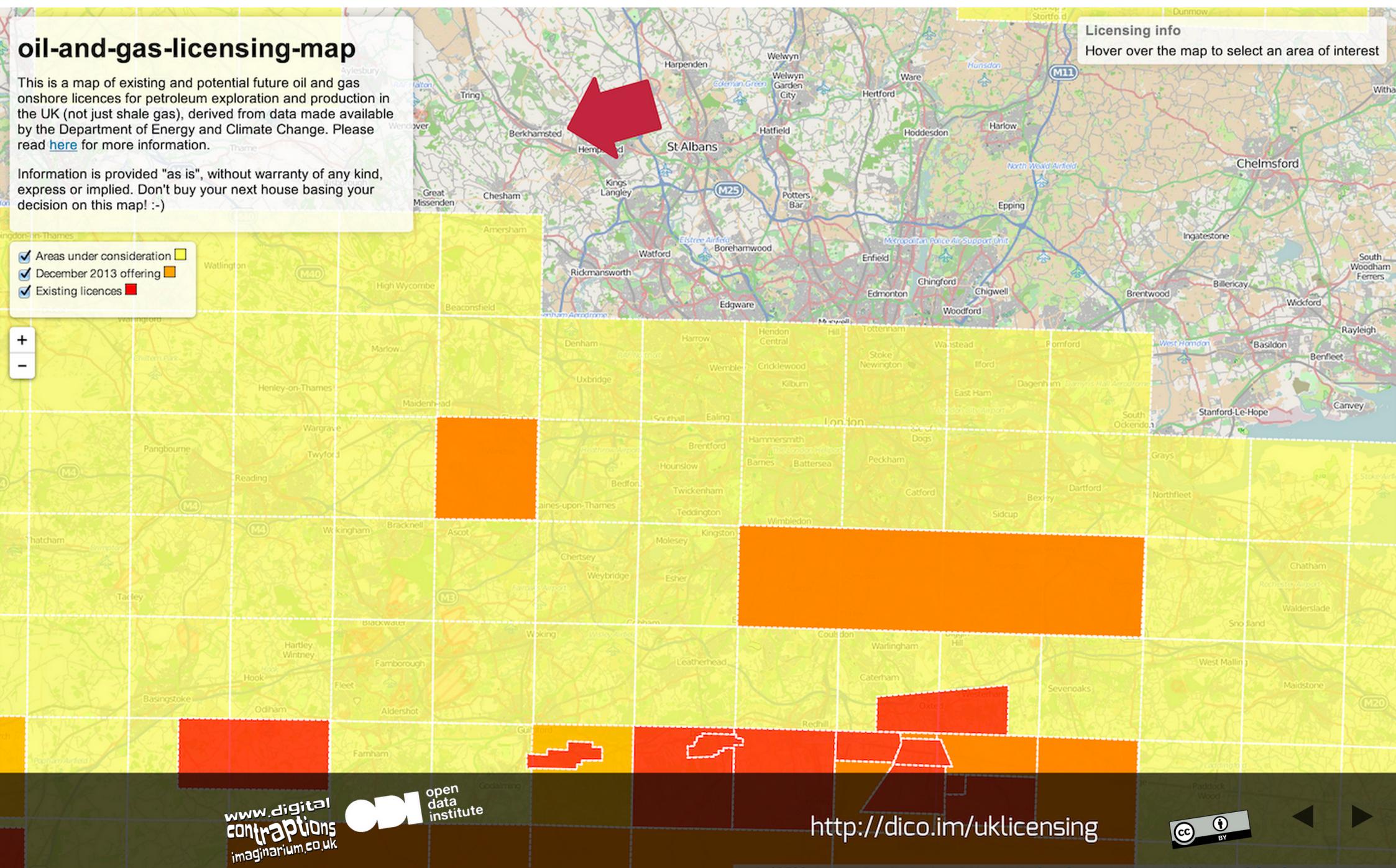
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## Licensing info

Hover over the map to select an area of interest



PUBLIC

[giacecco / oil-and-gas-licensing-map](#)[Star 1](#)[Fork 0](#)

43 commits

2 branches

0 releases

1 contributor



branch: master

[oil-and-gas-licensing-map](#) / 

Fixed wrong markdown



giacecco authored 20 days ago

latest commit 2f6d37a612



More content

3 months ago



Smaller images

2 months ago



Press release

2 months ago



Even simpler

3 months ago



.gitignore Added script that automates download and preprocess of existing licen...

3 months ago



README.md Fixed wrong markdown

20 days ago



diary.md Removed duplicate reference to ccby licence

3 months ago

README.md

# oil-and-gas-licensing-map

<http://www.digitalcontraptionsimaginariu.co.uk/oil-and-gas-licensing-map/>

[Create new certificate](#)[Browse all certificates](#)[Discussion](#)**Pilot level**

self certified

GB beta

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This data has achieved [Pilot level](#) on 13 January 2014 which means extra effort went in to support and encourage feedback from people who use this open data.

## UK oil and gas licensing map

**Summary****Type of release**

a one-off release of a set of related datasets

**Data Licence**

Creative Commons CCZero

**Content Licence**

Not Applicable

**Verification**

[www.digitalcontraptionsimaginariu...](http://www.digitalcontraptionsimaginariu...)  
self certified

**General Information**

This data is described at

<http://www.digitalcontraptionsimaginariu...> ↗

This data is published by

Digital Contraptions Imaginarium Ltd. ↗

The data is published on

<https://github.com/giacecco/oil-and-gas-licensing-map> ↗



This data was

<http://dico.im/1elXBb7>

The rights statement is at



# FRACK OFF

## Extreme Energy Action Network

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Frack Off @Frack\_Off 20 Mar

Active UK #fracking sites - #communityfightback Join the blockade at #bartonmoss #farndon #daneshill <http://t.co/AeIwOl60vA>



info@frack-off.org  
07858 614861

The Threat

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### MAP OF UK FRACKING SITES

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+1 5

Large areas of the UK are threatened by extreme energy extraction. This map is interactive. Zoom in to explore your area of the UK and click on the icons to get more information. To re-configure the map use the [Fullscreen View...](#)

#### Planning Permissions



Shale Oil & Gas:  
*Proposed / Granted / Drilled*



Coal Bed Methane:  
*Proposed / Granted / Drilled*

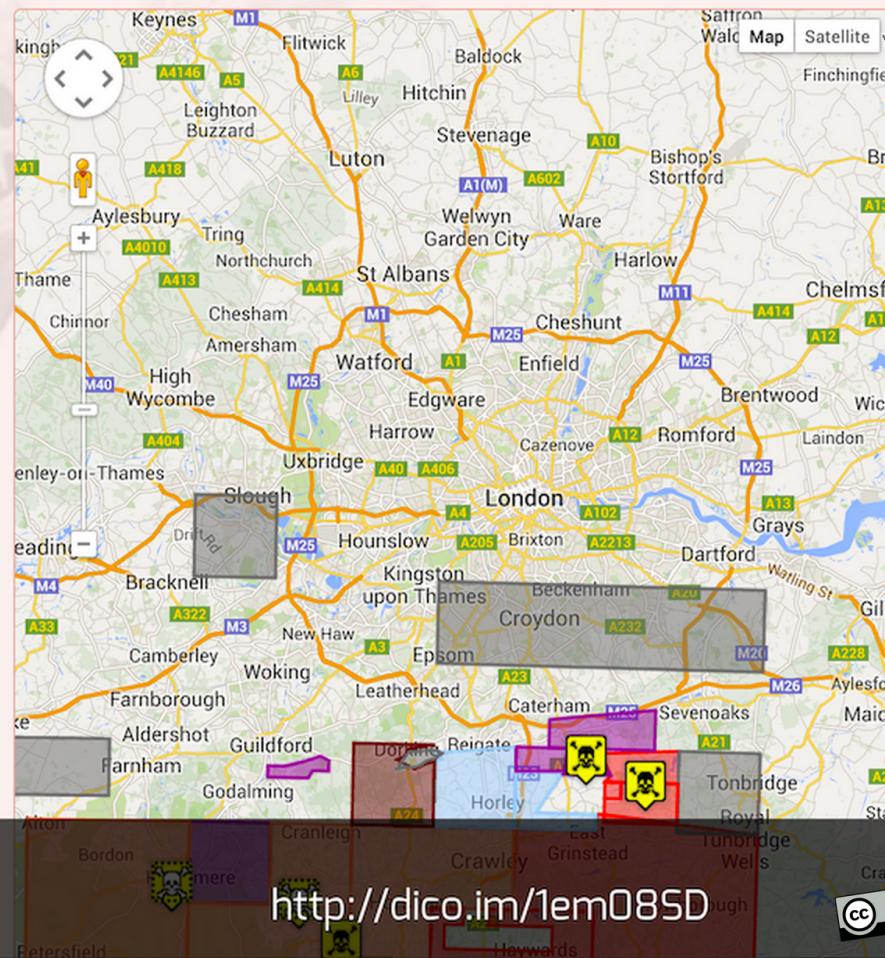
#### Coal Authority Licenses



Underground Coal Gasification:  
*Proposed / Granted*

#### DECC Petroleum Exploration & Development Licenses

Colour coded by company: **Cuadrilla Resources, Island Gas (IGas), Dart Energy, Reach CSG, Coastal Oil and Gas, UK Methane, Celtique Energie, Alkane Energy, Egdon Resources, Europa Oil & Gas, Aurora Petroleum, Magellan Petroleum, Norwest Energy** and other companies.



<http://dico.im/1em08SD>

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## Map reveals potential fracking sites across the North of England

Jan 15, 2014 12:47

By [Kate Proctor](#)

7 Comments

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A new map reveals sites across the North of England where fracking could take place in the future.



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North East News

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## \*DO\* TRY THIS AT HOME

- Read the news remembering that you are now an armchair auditor
- Pick one piece of news you feel connected to and be curious about it
- Identify and browse the data sources closer to that news or to your domain of interest
- Play with the data
- Engage with the data publishers and providers, let them know that you are there
- Work with others!

NUMBER OF PLACES **6**NUMBER OF DATASETS **51**NUMBER OF OPEN DATASETS **19**PERCENTAGE OPEN **37%**

Key: Yes No Unsure No data

[+ Contribute data to the Census!](#)

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 alphabetically  
 by score

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--	-------------------	---------------	------------------------	------------------	-------------	----------------------	-------------------	------------------	-----------------------	-------------------------	-------------------	------------------	------------------	------------------	-------------------	-------------

Nottingham																790
Cambridge																785
Sheffield																590
London																445
Bristol																335
Cardiff																100
Aberdeen																0
Aldershot																0
Belfast																0
Birkenhead																0
Birmingham																0
Blackburn																0
Blackpool																0
Bournemouth																0
Brighton																0

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imaginariump.co.uk



<http://dico.im/opendata-census>



## PERFECT VS GOOD

"(...) the Government should adopt a "twin-track" approach to data release is a practical and realistic way of maintaining the momentum on open data, which recognises that the perfect should not be the enemy of the good: a simultaneous 'publish early even if imperfect' imperative AND a commitment to a 'high quality core'. (...) As long as Government is clear about its limitations, there will always be a role for data that is imperfect but improvable."

Cabinet Office's "Statistics and Open Data" report

# OPEN DATA WANTS YOU, TOO

[www.digital  
contraptions  
imaginarium.co.uk](http://www.digitalcontraptions.imaginarium.co.uk)



# RESOURCES

This presentation  
<http://dico.im/armchair-auditor>

Birkbeck College's Ben Worthy blog post  
"Where are the Armchair Auditors?"  
<http://dico.im/ben-worthy-odi>

The Guardian's Patrick Butler blog post  
"Mrs Angry: how to be an armchair auditor"  
<http://dico.im/patrick-butler-mrsangry>

Cabinet Office's "Statistics and Open Data" report  
<http://dico.im/statistics-and-opendata>

The Open Data Institute learning and courses offering  
<http://theodi.org/courses>

Johns Hopkins' data science free courses offering on Coursera  
<http://dico.im/johns-hopkins-datascience>