THE WHAT, WHY AND HOW OF OPEN DATA

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WHAT?



WHERE DOYOU GET "DATA"?





- http://odifridayschrisvein.eventbrite.com: { @type: http://schema.org/Event, startDate: "2013-02-22T13:00:00+00:00", endDate: "2013-02-22T13:45:00+00:00", - location: { @type: http://schema.org/Place, name: "Open Data Institute" },
- offers: [0typ nai pr pr va in va structured },
- http://priva @type: h startDat endDate: - location @type name: }, - offers: [@type: http://schema.org/Offer, name: "Guest", price: 0, priceCurrency: "GBP", validThrough: "2013-03-01T09:00:00+00:00", inventoryLevel: 45, validFrom: "2013-02-15T11:00:00+00:00"

6 Registration of local services. E+W

(1) In this section "service" means a local service which is neither a London local service [^{F1} nor a service which falls within subsection (1A) below]^{F1} nor a service provided under an agreement [^{F2}entered into, where a railway service has been temporarily interrupted, with the Secretary of State, the Scottish Ministers or the National Assembly for Wales under section 40 of the Railways Act 2005 (substitution services provided for interrupted or discontinued railway services)]^{F2}.

- [F3(1A) A service fails within this subsection if conditions A and B are satisfied in relation to it.
- (1B) Condition A is satisfied if the service is provided in pursuance of-



- (c) a person involved with the provision of education or training at any such premises.
- F3(2) Subject to regulations under this section, no service shall be provided in any traffic area in which there is a stopping place for the service unless—
 - (a) the prescribed particulars of the service have been registered with the traffic commissioner for that area by the operator of the service;
 - (b) the period of notice in relation to the registration has expired; and
 - (c) the service is operated in accordance with the registered particulars



DATA CAN BE REUSED







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DATA CAN BE COMBINED





WHAT DOES "OPEN" MEAN?

for everyone

- not limited by funds
- not limited by who they are
- to do anything
 - analyse and present in different ways
 - combine with other data
 - republish for other people
 - make money



MOST DATA IS NOT OPEN

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WHY? (1)



GREAT ONLINE SERVICES





APIS EVERYWHERE





WHY DO THEY HAVE APIS?





WHY OPEN DATA?





WHY? (2)



ENCYCLOPEDIAS









CODE







MAPS





OpenStreetMap



COMMONS-BASED PEER PRODUCTION

"a new model of socio-economic production in which the creative energy of large numbers of people is coordinated (usually with the aid of the Internet) into large, meaningful projects mostly without traditional hierarchical organization"





NETWORKS OF DATA





WHY OPEN DATA?



www.businessmodelgeneration.com



HOW?



1. IDENTIFY THE DATA YOU HAVE

Key Partners

Who are our Key Partners? Who are our key supplies? Which Key Resources are we acquiring from partners? Which Key Activities do partners perform? Which Key Activities and an any Magnitude of partners and any any Acquiring from the activities Magnitude of the activities and any any Acquiring from the activities

PRIMARY DATA

- takes effort
 - collect
 - maintain

and investment

- people
- equipment

examples

- Met Office
- book publishers
- census

Cost	Structure
------	-----------

What are the most important costs inherent in our business model? Which Key Resources are most expensive? Which Key Activities are most expensive?

Value Driven (focused on value creation, prem IMPLE CHARACTERISTICS: Fixed Costs (salaries, rents, utilities) Variable costs







What Key Activities do our Value Propositions require? Our Distribution Channels? Customer Relationships? Revenue streams?

collect

maintain

Key Resources



What Key Resources do our Value Propositions require? Our Distribution Channels? Customer Relationships? Revenue Streams?

data

people

equipment

Key Partners



Who are our Key Partners? Which Key Resources are we acquiring from partners? Which Key Activities do partners perform? Which Key Activities of partners perform? Which Key Activities are accessed applications of partners and accessed applications of partners a

EXHAUST DATA

- support activity
- no extra effort
- no extra cost
- examples
 - till receipts
 - phone usage
 - customer data
 - accounts

Cost Structure	Cost	Structure
----------------	------	-----------

What are the most important costs inherent in our business model? Which Key Resources are most expensive? Which Key Activities are most expensive?

Cost Driver Generators numerical structure, low price value proposition, maximum automation, exter Value Driven (focused on value creation, premium value proposition) SAMPLE CHARACTERISTICS

Fixed Costs (salaries, rents, uti Variable costs Economies of scale Economies of scape







What Key Activities do our Value Propositions require? Our Distribution Channels? Customer Relationships? Revenue streams?

as usual

Key Resources



What Key Resources do our Value Propositions require? Our Distribution Channels? Customer Relationships? Revenue Streams?

data

as usual



DOYOU OWN IT?

created data

you own the data you gather

derived data

you might own data you calculate from others' data

bought data

you almost certainly don't own data you've got from someone else



IS IT PERSONAL?

non-personal

data that has nothing to do with people or groups of people

aggregate

summaries of data about people or groups & their activity

personal

data about people or groups & their activity



2. WORK OUT WHAT YOU WANT TO ACHIEVE



OPEN DATA IS A TOOL





3. MAKE IT OPEN



CHOOSE A LICENCE





ADD THE LICENCE

in HTML

<aresource="{{database-url}}"
rel="license"
href="{{licence-url}}">
{{licence-name}}

in HTTP

Link: <{{licence-url}}; rel=license</pre>



4. ITERATE & IMPROVE



TECHNICALLY

- standard formats
- APIs help some reusers
- dumps help other reusers
 - whole dataset analyses
 - also provide feeds of changes
- links & link relations
 - pull together disparate sources



HIGH QUALITY OPEN DATA

- make it trustworthy
 - accurate, timely
 - guaranteed availability
- create a community
 - feedback, including APIs
 - discussion lists
 - code libraries



CHALLENGES



WE DON'T KNOWYET

- which business models work
- which licences drive good behaviour
- how to measure open data use
- how to make data findable
- whether data formats really matter
- whether links in data really matter
- whether the world is better in the end





Open Data Institute



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QUESTIONS?