THE ECONOMICS OF OPEN DATA

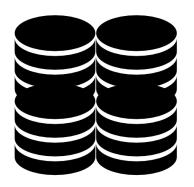
BUSINESS MODELS AND IDEAS FOR EXPANDABILITY

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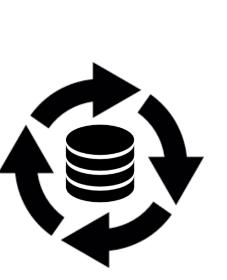
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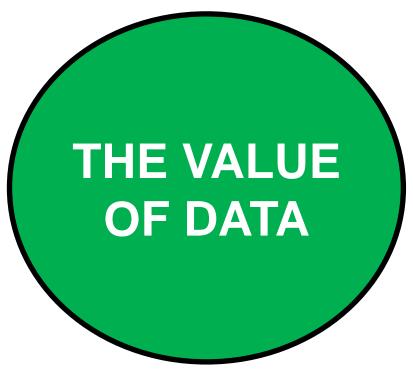
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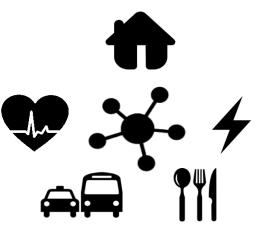




SIZE





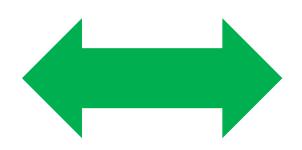


SCOPE



INTEROPERABILITY

DIFFERENT OPEN BUSINESS MODELS

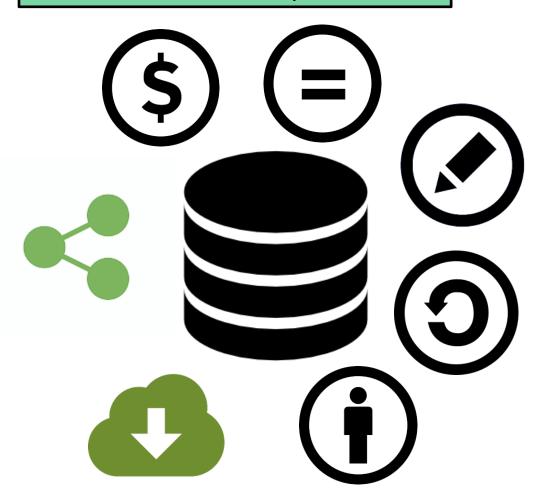


DIFFERENT POSSIBLE OPEN LICENSES

Data common ≠ Open data

BUSINESS MODEL

SET OF MECHANISMS OF VALUE CREATION, DELIVERY AND DISTRIBUTION OF AN ORGANIZATION





MODE OF PRODUCTION



OPEN BUSINESSMODELS FOR DATA

5 FAMILIES IDENTIFIED

GOVERNANCE

DEGREE OF COLLECTIVE GOVERNANCE

'PURE' DATA COMMONS

OPEN DATA
WITHOUT
COLLECTIVE
GOVERNANCE

REVENUE MODEL

OPEN
BUSINESS
MODELS
EXCLUDE
PROTECTIONBASED
REVENUE
MODELS

VERY PERMISSIVE LICENSES

MODE OF PRODUCTION

(CO-)PRODUCED BY
THE STATE
BUREAUCRACY
AND/OR
COLLECTED BY THE
STATE FROM THIRD
PARTIES



GOVERNMENT OPEN DATA

THE NATURE OF DATA IS LINKED TO STATE'S FUNCTIONS

OPEN DATA AS A PUBLIC UTILITY AND CITIZEN RIGHT

REVENUE MODEL

FINANCED BY THE STATE BUDGET

GOVERNANCE

CENTRALIZED

VARIES REGARDING COMMERCIAL USE DEPENDING ON THE REVENUE MODEL

MODE OF PRODUCTION

INTRAFIRM DATA
COLLECTION/
PRODUCTION
AND/OR
CROWDSOURCED
ENLARGEMENT/
ENRICHMENT OF
THE INITIAL
DATASET



PRIVATE FIRM STANDALONE OPEN DATA

CROWDSOURCED ENLARGEMENT AND/OR ENRICHMENT OF THE DATASET AND/OR CREATING RELATED BUSINESSES

GOVERNANCE

THE FIRM SIMPLY PROVIDES THE BASELINE DATASET

REVENUE MODEL

(OPEN) DATA-RELATED SERVICES

FREEMIUM

GAINING KNOWLEDGE, EXPERTISE AND CREATING BUSINESS OPPORTUNITIES

OPEN LICENSES ALLOWING COMMERCIAL USE

MODE OF PRODUCTION

PRODUCTION OF DATA BY
APPLYING A
CERTAIN
EXPERTISE TO
ALREADYEXISTING OPEN
AND/OR
CROWDSOURCED
DATASETS

NON-COMMERCIAL CENTRALIZED OPEN

AN ENTITY/INDIVIDUAL DECIDES TO PRODUCE OPEN DATA TO CONTRIBUTE TO A CAUSE

DATA PRODUCTION

GOVERNANCE

CENTRALIZED IN ONE ENTITY OR INDIVIDUAL

REVENUE MODEL

VOLUNTARY LABOR

DONATIONS

NOTORIETY →BUSINESS OPPORTUNITIES

OPEN LICENSES ALLOWING COMMERCIAL USE

MODE OF PRODUCTION

COMPLEMENTARY
DATA IS POOLED
BY DIFFERENT
STAKEHOLDERS

SOME PARTNERS
PROVIDE THEIR
EXPERTISE TO
INCREASE THE
QUALITY AND
INTEROPERABILITY
OF THE DATA



MULTI-STAKEHOLDER DATA POOLING

FOR PRIVATE FIRMS: CREATING RELATED BUSINESSES, PUBLICITY, GAINING EXPERTISE, INTEROPERABILITY

FOR NGOs AND GOVERNMENTS:

FULFILLING THEIR MISSION

GOVERNANCE

MULTI-PARTNER
SHARED GOVERNANCE
WITH A LEADING ENTITY

REVENUE MODEL

FINANCIAL CONTRIBUTIONS FROM STAKEHOLDERS

(OPEN)DATA-RELATED SERVICES

GAINING KNOWLEDGE, EXPERTISE

PUBLIC FUNDING

OPEN LICENSES ALLOWING COMMERCIAL USE

MODE OF PRODUCTION

MAINLY CROWDSOURCED CONTRIBUTIONS BY A DISPERSED COMMUNITY

OPEN DATA FROM THRID PARTIES IS INTEGRATED



COMMONS-BASED CROWDSOURCING

A COMMUNITY CONTRIBUTES TO CREATE A DATA COMMON TO TACKLE A SOCIETAL ISSUE OR PRODUCE A USE VALUE THEY WANT TO KEEP OPEN TO ALL

GOVERNANCE

SHARED BY THE COMMUNITY, USUALLY COORDINATED THROUGH A FOUNDATION

REVENUE MODEL

CAPTURING
VALUE FROM
RELATED
PRODUCTS OR
SERVICES

DONATIONS

PUBLIC FUNDING

PLATFORM FIRMS CONTROL LARGE AMOUNTS OF DATA THEY HAVE NO INCENTIVES TO OPEN



SOME STEPS TOWARDS AN OPEN-DATA-BASED DIGITAL ECONOMY: GOING BEYOND GETTING THE RIGHT BUSINESS MODEL

STATE

- 盒
- MANDATORY DATA OPENNESS OF PROJECTS COUNTING WITH PUBLIC FUNDING
- MANDATORY OPENNES/SHARING OF <u>SOME</u>
 DATA GENERATED BY FIRMS BENEFITING FROM PUBLIC CONTRACTS (cf. FRANCE'S NEW "GENERAL INTEREST DATA" LEGAL FIGURE)
- FINANCE DATA COMMONS THAT CONTRIBUTE TO THE GENERAL INTEREST

DATA COMMONERS

- DEVELOPING **DATA COOPERATIVES** (e.g. MIDATA, SALUS)
- CROWDSOURCED OPEN DATA SOLUTIONS SHOULD FOCUS ON EASINESS OF CONTRIBUTIONS, ADAPTING TO THE GENERAL PUBLIC AND HIGH QUALITY OF THE ASSOCIATED SERVICES

- INDIVIDUALS HAVE THE LEGAL POWER TO CONTROL ONLY A SMALL SHARE OF THEIR 'PERSONAL' DATA → AN **INTELLECTUAL PROPERTY RIGHTS REVOLUTION** IS NEEDED
- **NEUTRAL INFRASTRUCTURES TO MANAGE OPEN DATA POOLS** (e.g. DECODE, NEW ZEALAND DATA COMMONS BLUEPRINT, SOLID)

THANK YOU FOR YOUR ATTENTION

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