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Open data is the idea that some data should be freely available to everyone to use and republish as they wish, without restrictions from copyright, patents or other mechanisms of control.
Open Data Model
What is not Open Data?

Open Data ≠ Publicly available data
Why is it important?

Economy

- **Market Size and value added as percentage of GDP**
  - €325 Billion direct market size for the period 2016-2020
  - 36.9% increase in share of GDP from 2016 to 2020
  - €83,578 Million market for Public Administration in 2020

- **Number of jobs created**
  - 100,000 jobs in Open Data in 2020
  - 7.3% average increase Open Data jobs
  - More than 2,500 jobs in at least nine countries

- **Cost Savings for the public sector**
  - €1.7 Billion saved in costs EU28+ for Public Administrations in 2020
  - Highest Cost Savings by Germany with €296 Million
  - 0.22% of estimated Cost Savings for Denmark’s Government Expenditure in 2020

- **Efficiency Gains or productivity gains**
  - 7,000 lives can be saved due to quicker response
  - 2,549 hours can be saved that are currently wasted on finding parking
  - 629 million hours can be saved which is equivalent to €27.9 Billion

An independent consultant was able to identify a massive tax fraud in the Toronto area by analyzing an open dataset from the Canada Revenue Agency.

Where's my bus? Open data enables real-time route info for Boston riders

3 Jun 2010 | Melanie Chernoff (Red Hat) | 1 comment

At Gov 2.0 Expo last week, Joshua Robin, the Director of Innovation and Special Projects at the Massachusetts Department of Transportation, described how MassDOT was inspired by the simple concept of open data modeled by the National Weather Service.

Why is it so easy to find real-time weather reports? Because the National Weather Service (NWS) has opened their data in a usable format that third party developers have utilized to create consumer applications.


The Massachusetts Bay Transit Authority (MBTA) opened up their transit data to software developers. Within 2 months, six new trip planning applications for bus and train riders had been built at no cost to the MBTA.
Open Data and Privacy
The Concordia University Open Data Program

Motivation

Emma
the student

George
Internal Development

Prof. Brown
Faculty
The Concordia University Open Data Program

Motivation

What information exists?
Where and how can I get it?
Is it reliable (consistent over time)?
Has somebody else worked with this data before?
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Overview

- The license
- The API
- The raw data
- The documentation

https://concordia.ca/opendata
The Concordia University Open Data Program

Examples

**Desks**
- 2nd floor: 19 (LB-245: 14, LB-285: 5)
- 3rd floor: 45 (LB-345: 16, LB-385: 29)
- 5th floor: 12 (LB-545: 12)

**Laptops**
- 1-day loan loan: 11

**Tablets**
- Tablets: 0
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Examples

Context Exchange

Matagami Technologies inc.  Lifestyle

Everyone

⚠️ You don't have any devices.

Add to Wishlist

Install
The Concordia University Open Data Program

Examples

Around 1600 persons are now in the Library

Move mouse to disturb them.

https://opendata.concordia.ca/demos/occupancy/
The Concordia University Open Data Program

Current Offer

Courses
Daily course data export from the Student Information System (SIS) system.
/course/catalog
/course/description
/course/section
/course/schedule
/course/sessions
/course/faculty
/course/experiential_learning

Facilities
Daily and historical environmental and consumption data obtained from sensors and meters located on both campuses.
/facilities/pointlist
/facilities/consumption
/facilities/environmental

Library
Live data on the current status of some of the Library services and events.
/library/hours
/library/events
/library/computers
/library/occupancy
/library/room_list
/library/reservations
1. Create an API account
2. Example response, JSON overview
3. Use excel consume and visualize data