



**WHAT ARE OPEN DATA**

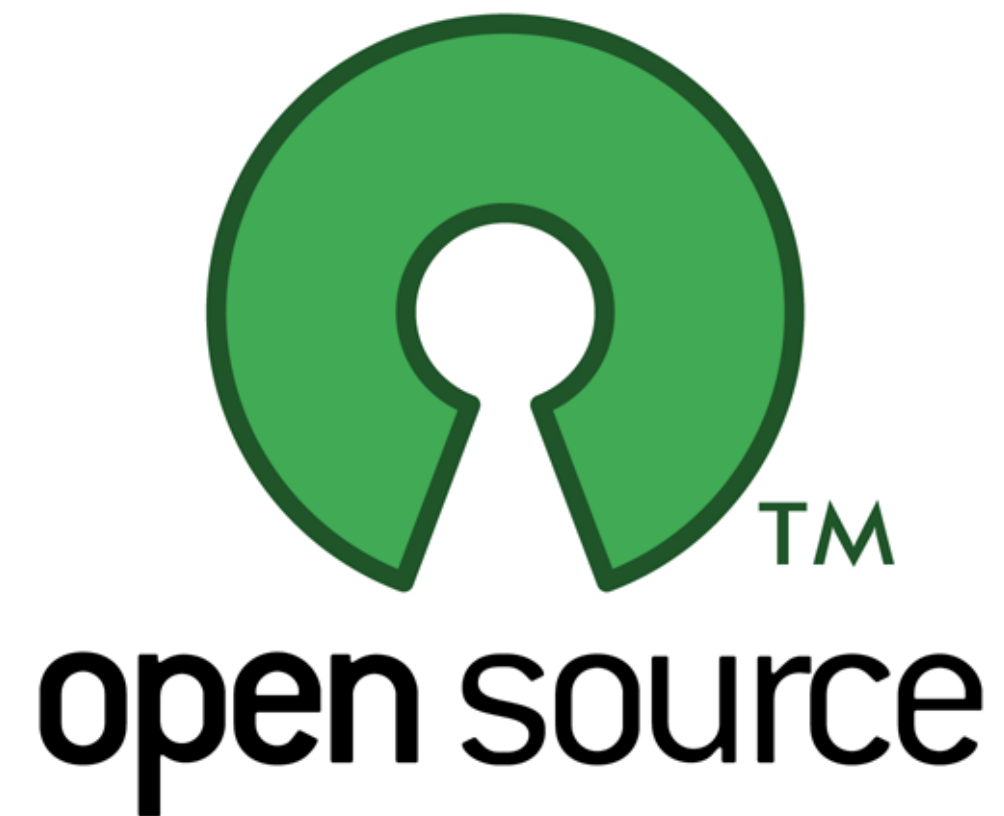
# WHAT ARE OPEN DATA?

## THE CONCEPT OF OPENNESS



Openness is a concept based on transparency  
and restriction-free access  
to information and knowledge


## SOME OPEN PROJECTS



This type of philosophy is common to various movements, such as:

- Open Content
- Open Source
- Open Access
- Open Education

The most recent of the various international definitions of [Open Definition](#)

Open Definition	The Definition	Conformant Licenses	Participate	News	
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# Open Definition 2.1

Version 2.1

The Open Definition makes precise the meaning of “open” with respect to knowledge, promoting a robust commons in which anyone may participate, and interoperability is maximized.

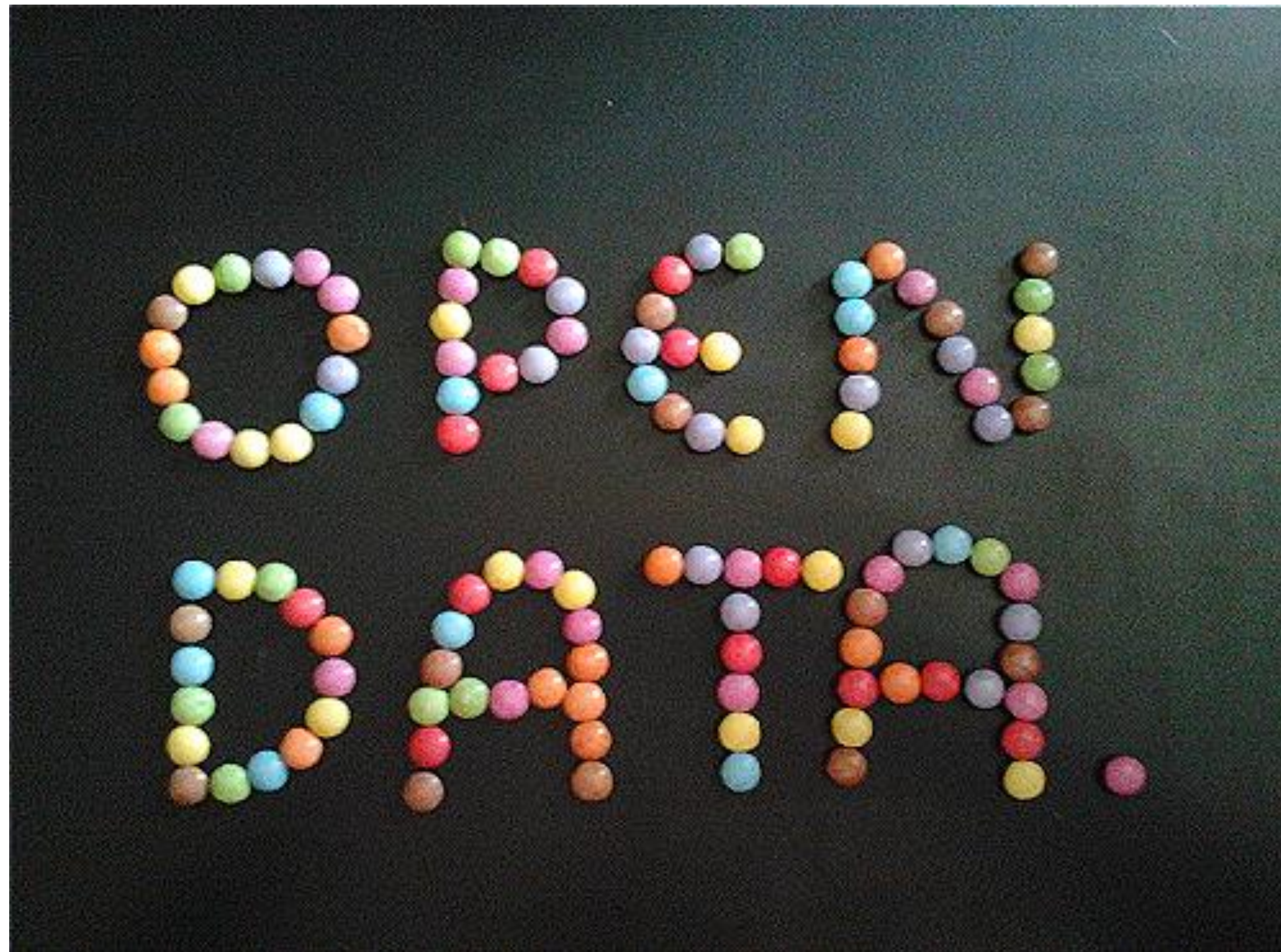
**Summary:** *Knowledge is open if anyone is free to access, use, modify, and share it — subject, at most, to measures that preserve provenance and openness.*

## THE OPEN DEFINITION IN YOUR LANGUAGE

العربية | Беларуская | Български | Català  
| Czech | Dansk | Deutsch | Eesti |  
Ελληνικά | English | Español | Euskara |  
Suomi | Français | Galego | עברית | हिन्दी |  
Croatian | Magyar | Indonesian | Íslenska  
| Italiano | 日本語 | ಕನ್ನಡ | 한국어 |  
македонски јазик | Norsk (bokmål) |  
Polszczyzna | Português Brasileiro |  
Português | Русский | Shqip | Srpski |  
Svenska | తెలుగు | Türkçe | Українська |  
简化中国 | 中文



## THE DEFINITION OF OPEN DATA



### **OPEN DATA:**

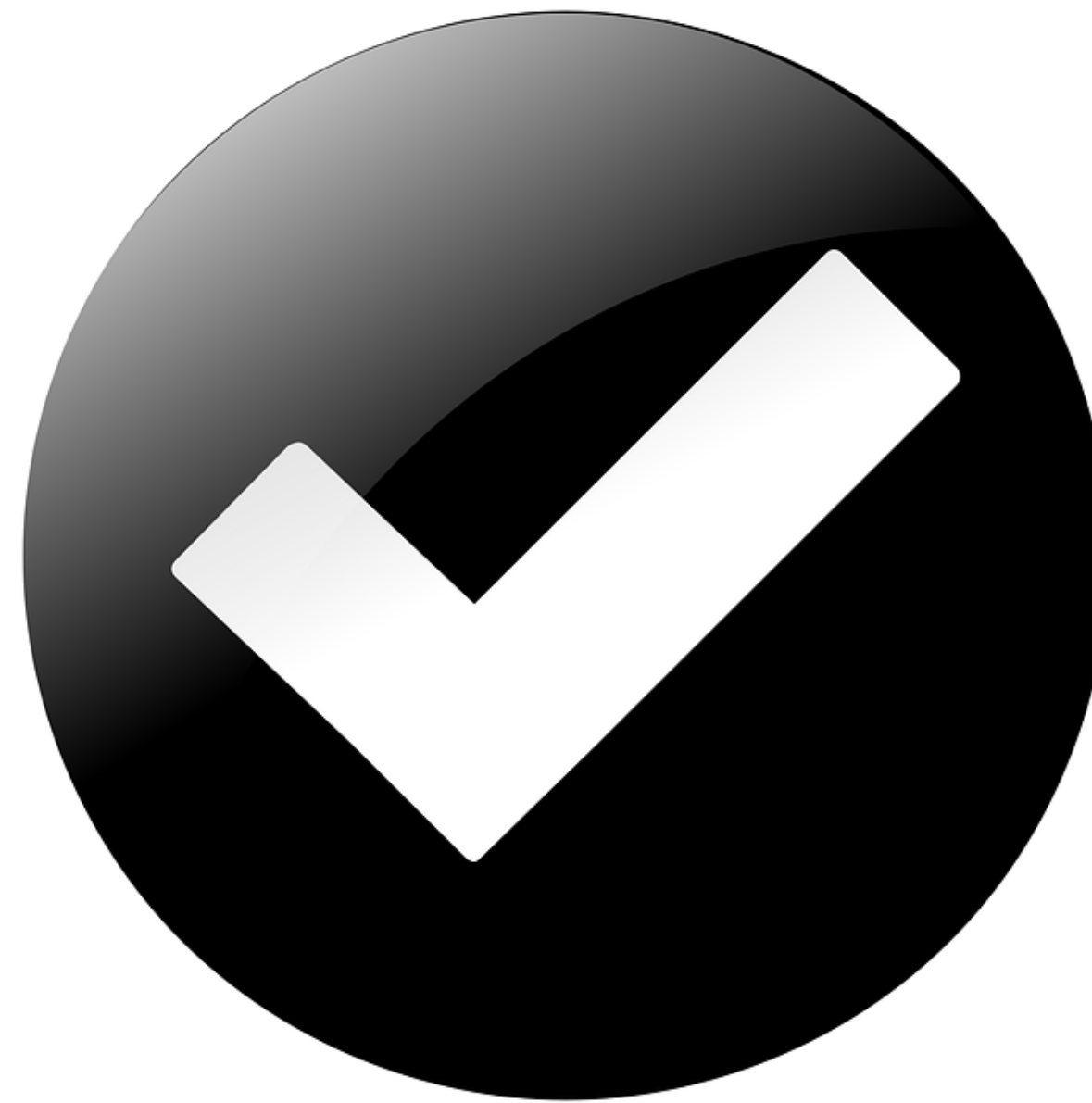
... available online

... freely reusable

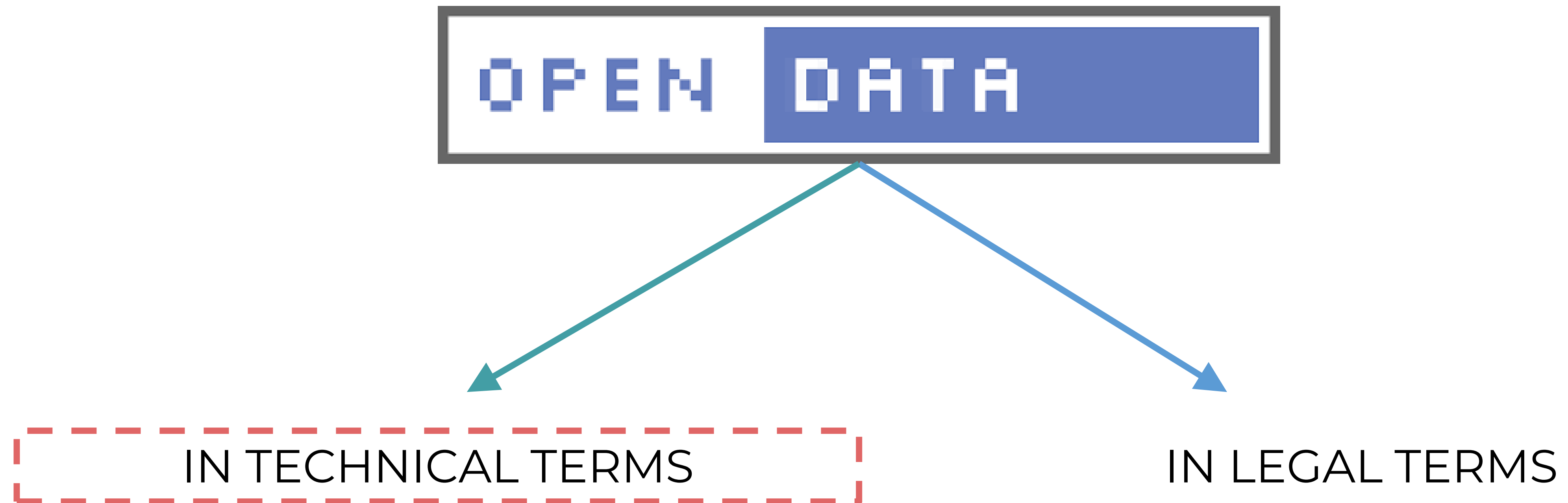
... non-proprietary formats

## FREEDOM TO REUSE DATA

Open Data must also be available for commercial reuse, with the sole requirement of citing the source and/or sharing the data in the same way.



## OPEN DATA IN TECHNICAL TERMS





## OPEN DATA IN TECHNICAL TERMS

Data are **AVAILABLE** when:

a **large quantity** can be downloaded in its entirety

they can be downloaded in a **format that is legible and automatically amendable**, with no – or minimal – human intervention

Data are **ACCESSIBLE** when:

they can be found easily, generally **via online services** i.e. using the Internet

# OPEN DATA IN TECHNICAL TERMS

Product.	Date of taking sample.	Specific gravity at 15° C.	Wort	Beer	Extract	Alcohol	Acid	Carbonic acid
Malt-and-rice wort	1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 1929, 1930, 1931, 1932, 1933, 1934, 1935, 1936, 1937, 1938, 1939, 1940, 1941, 1942, 1943, 1944, 1945, 1946, 1947, 1948, 1949, 1950, 1951, 1952, 1953, 1954, 1955, 1956, 1957, 1958, 1959, 1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2							

Sample No.	Raw materials.	Product.	Date of taking sample.	Specific gravity at 15.6° C./15.6° C.	Alcohol.	Ex-tract.	Extract in original wort (calculated).	Degree of fermentation.	Total acids as lactic.	Volatile acids as acetic.	Reducing sugars as anhydrous maltose.	Dex-trin.	Protein (N X 6.25).	Ash.	Phos-phoric acid (as P <sub>2</sub> O <sub>5</sub> ).	Unde-termined.	Color (Lovibond) in 1-inch cell.
					Grams per 100 cc.	Grams per 100 cc.	Grams per 100 cc.		Grams per 100 cc.	Grams per 100 cc.	Grams per 100 cc.	Grams per 100 cc.	Grams per 100 cc.	Grams per 100 cc.	Grams per 100 cc.	Grams per 100 cc.	Degrees, brewer's scale.
22026-D	80 per cent malt and 20 per cent rice.	Wort....	July 24, 1911	1.0459	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22032-D	Do.....	Beer....	July 31, 1911	1.0121	.....	12.15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
22036-D	Do.....	Wort....	Aug. 9, 1911	1.0464	3.31	4.80	11.42	57.97	0.124	0.001	8.64	.....	.....	.....	.....	.....	.....
22042-D	Do.....	Beer....	Aug. 16, 1911	1.0139	.....	12.30	.....	.....	.275	.003	1.18	.....	.....	.....	.....	.....	.....
16269-C	60 per cent malt and 40 per cent rice.	Wort....	Dec. 5, 1911	1.0489	3.18	5.23	11.59	54.87	.126	.001	8.70	2.47	.519	.150	.055	.....	.....
16271-C	Do.....	Beer....	Dec. 12, 1911	1.0149	.....	12.95	.....	.....	.243	.003	1.57	.....	.624	.204	.072	0.48	2.0
			Mar. 12, 1912	1.0159	3.45	5.68	12.58	54.85	.144	.003	9.05	2.41	.400	.156	.057	.....	2.0
			Dec. 6, 1911	1.0496	3.33	5.76	12.42	53.62	.171	.013	1.63	.....	.461	.229	.066	.....	2.0
			Dec. 13, 1911	1.0152	.....	13.14	.....	.....	.180	.014	1.87	2.49	.308	.213	.056	1.04	.....
			Mar. 12, 1912	1.0157	3.41	5.61	12.43	54.87	.144	.003	9.32	2.36	.327	.208	.056	.99	.....
					3.29	5.68	12.26	53.67	.175	.013	1.59	.....	.498	.216	.067	.....	.....
										1.88	2.58	.314	.203	.050	.93	.....	.....
											2.58	.314	.222	.058	.69	.....	.....

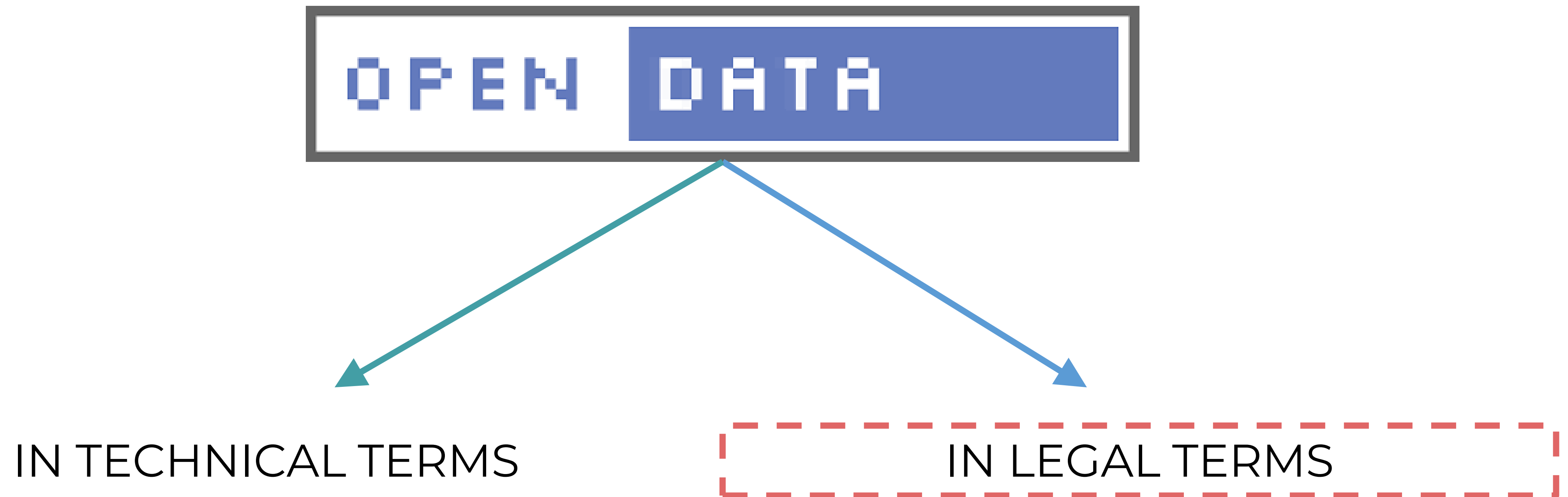


## OPEN DATA IN TECHNICAL TERMS

The screenshot displays the Redline.js web application interface. At the top, a dark navigation bar contains links for Documentation, Tutorials, Demos, and a highlighted Download button. A yellow callout box points to the Download button in the navigation bar and another Download button in a separate box above the main interface. The main interface features a toolbar with view options (Grid, Graph, Map, Timeline, Transform), a record count (195 records), a pagination control (0 to 100), a search bar (Search data ...), and buttons for Filters and Fields. Below the toolbar is a data table with columns: LU growth, \_noname\_, Millions ..., Millions ..., LU Avera..., Bus Aver..., LU plus ..., Millions ..., and Bus gro... The table contains 10 rows of data. To the right of the table are panels for Filters (Add filter) and Fields (+), which list various data fields like \_noname\_string, Millions LU journeys adjusted for odd days, and Millions bus journeys adjusted for odd days - new measure.

LU growth	_noname_	Millions ...	Millions ...	LU Avera...	Bus Aver...	LU plus ...	Millions ...	Bus gro...
-5.4%	2006/200...	151.3	223.5	73.9	138.8	212.7	72.3	-1.5%
-2.5%	2006/200...	158.9	234.5	73.8	139.1	212.9	75.6	3.4%
-2.7%	2006/200...	158.4	232.7	73.6	139.6	213.2	74.3	4.4%
8.2%	2006/200...	161.5	238.9	74.1	140.1	214.2	77.4	4.9%
15.0%	2006/200...	153.5	227.2	74.8	141.1	215.9	73.7	9.9%
	2006/200...	153.2	227.3	75.2	141.7	216.9	74.1	5.8%
	2006/200...	165.1	246.2	75.6	142.1	217.7	81.1	4.0%
	2006/200...	166.5	250.0	76.0	142.6	218.6	83.4	4.4%
	2006/200...	166.5	251.1	76.3	142.8	219.1	84.6	2.0%
	2006/200...	138.9	210.0	76.7	142.9	219.6	71.1	1.0%
	2006/200...	160.5	239.1	77.0	143.4	220.5	78.5	4.5%
	2006/200...	163.0	244.2	77.4	144.3	221.6	81.2	7.6%

## OPEN DATA IN LEGAL TERMS



TRANSPARENCY


PRIVACY







# TRANSPARENCY

The public must be able to access information that the state authority collates for organising public services


Agenzia per l'Italia Digitale

 **dati.gov.it**  
i dati aperti della pubblica amministrazione














Seguici su   

Cerca nel sito 

Dati Notizie Fare Open Data Federazione dei cataloghi Monitoraggio Sviluppatori Contatti

Cerca tra i dati della pubblica amministrazione 

Naviga i dati per categoria tematica:

						
agricoltura, pesca, silvicoltura e prodotti alimentari	Economia e finanze	Istruzione, cultura e sport	Energia	Ambiente	Governo e settore pubblico	Salute
						
Tematiche internazionali	Giustizia, sistema giuridico e sicurezza pubblica	Regioni e città	Popolazione e società	Scienza e tecnologia	Trasporti	





# PRIVACY



# USER LICENSES



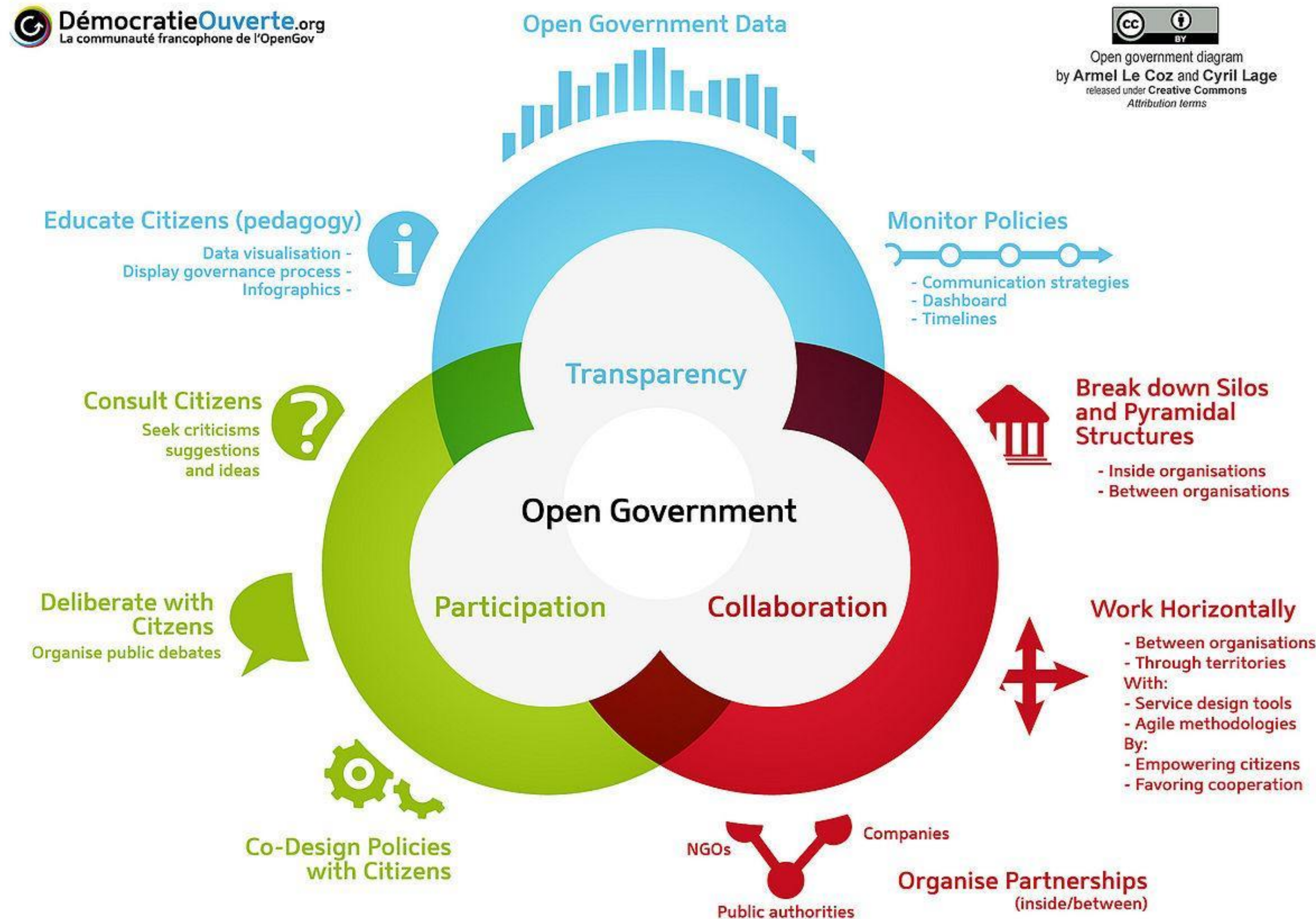
## OPEN DATA: USER LICENSES



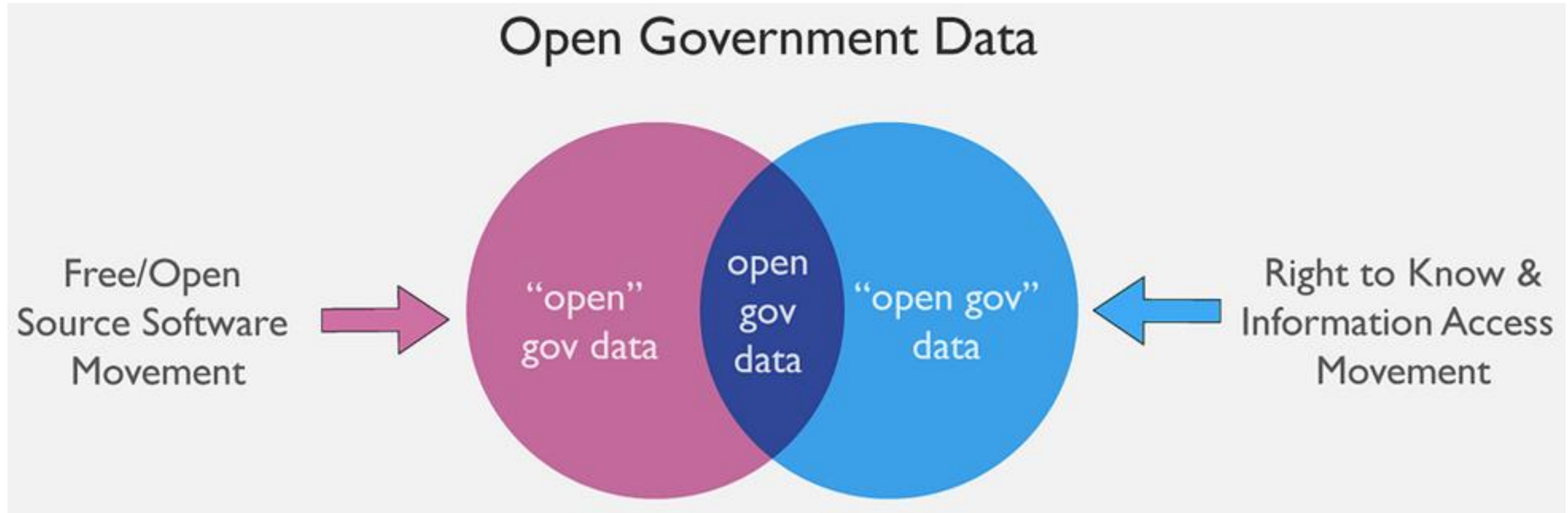


# WHAT ARE OPEN GOVERNMENT DATA

# OPEN GOVERNMENT



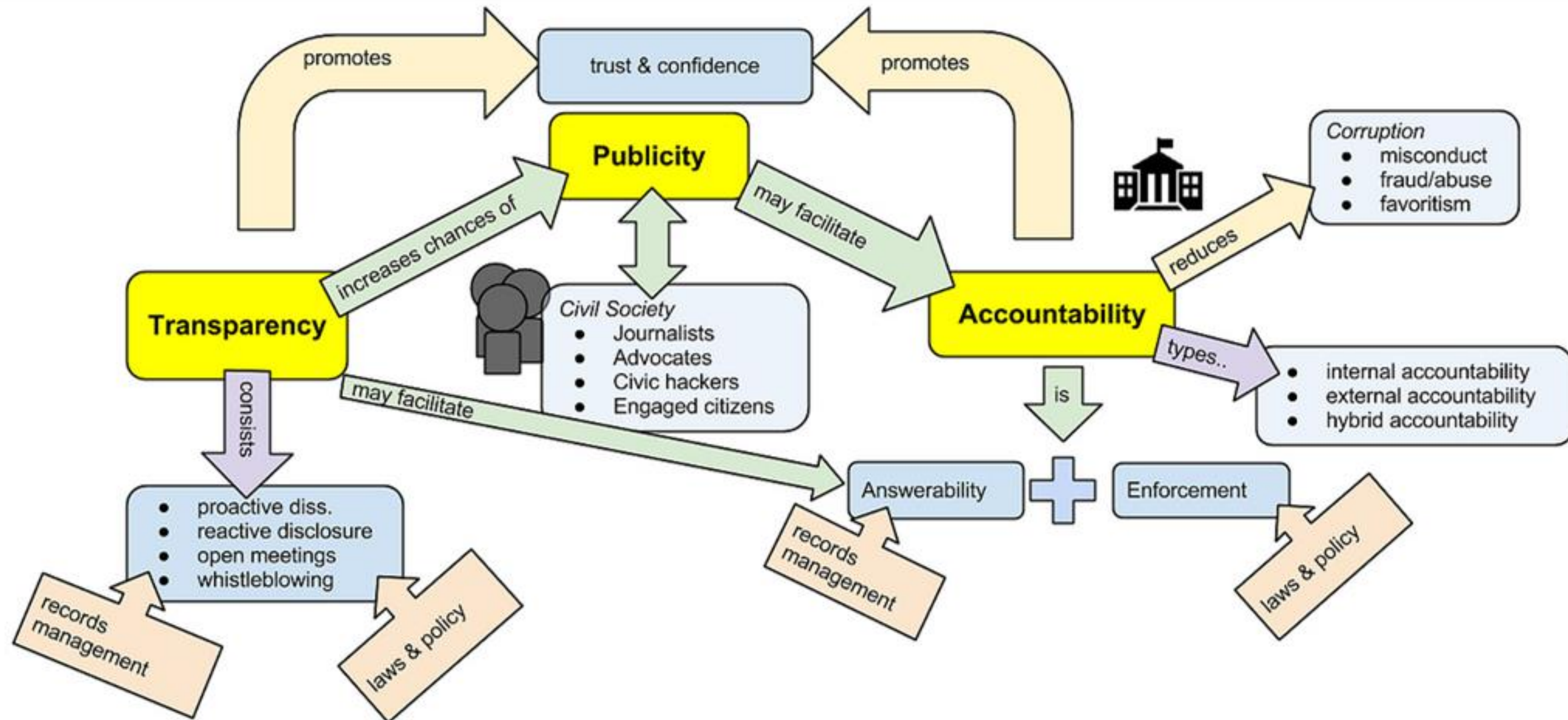
The openness of public data starts from the Open Government strategy started in 2009 by the former US president Barack Obama



Open Government Data:  
public data collected by local authorities for institutional purposes (e.g. for providing services, tracking policies, guaranteeing rights...)



## Objectives: Transparency, Accountability, Participation



# WHAT IS THE VALUE OF OPEN DATA





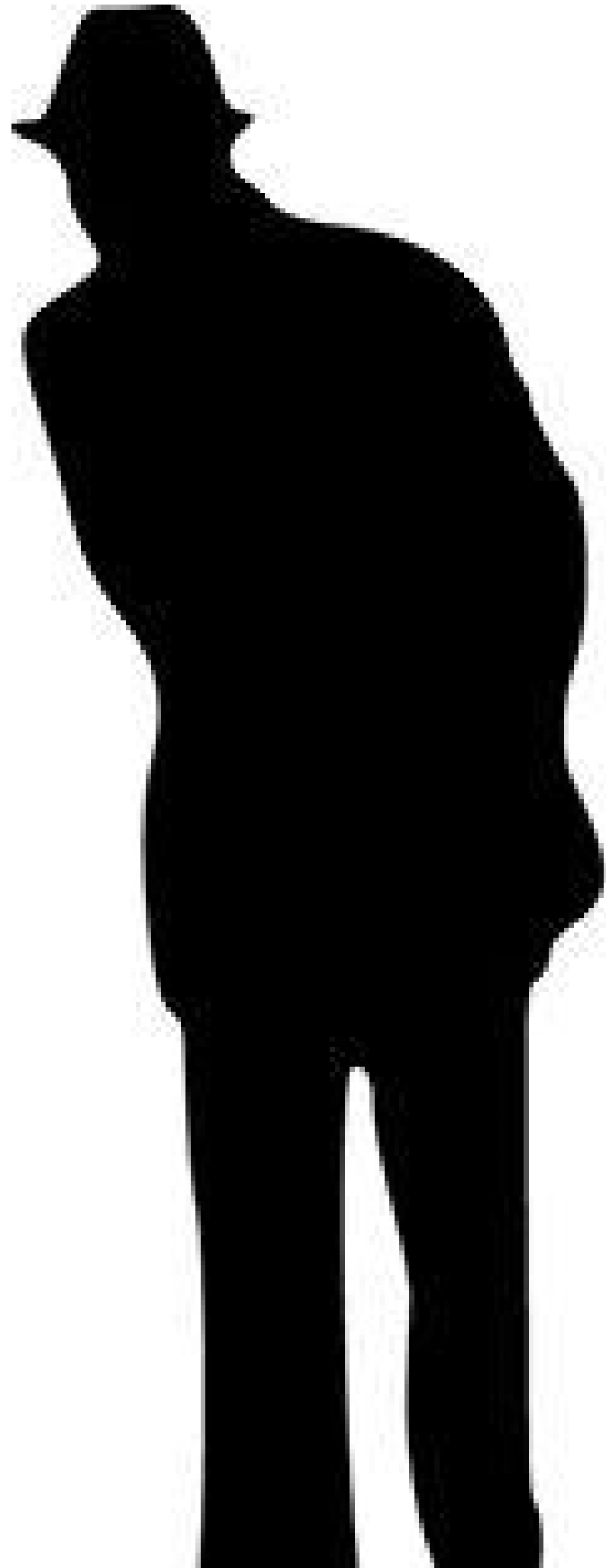
Opportunity for whoever (journalists, analysts or individual citizens) to scrutinise the actions of government and public administrations.

## NEW DATA, THEREFORE NEW PARTNERSHIPS



New models of public-private collaboration, based on progressive availability of data and information: the public contribute by attributing to awareness among millions of people

## MORE DATA, THEREFORE MORE AWARENESS OF GOVERNMENT POLICIES



Availability of detailed and up-to-date information allows the public to participate in decisions in an informed way, and monitor the efficacy of policies.

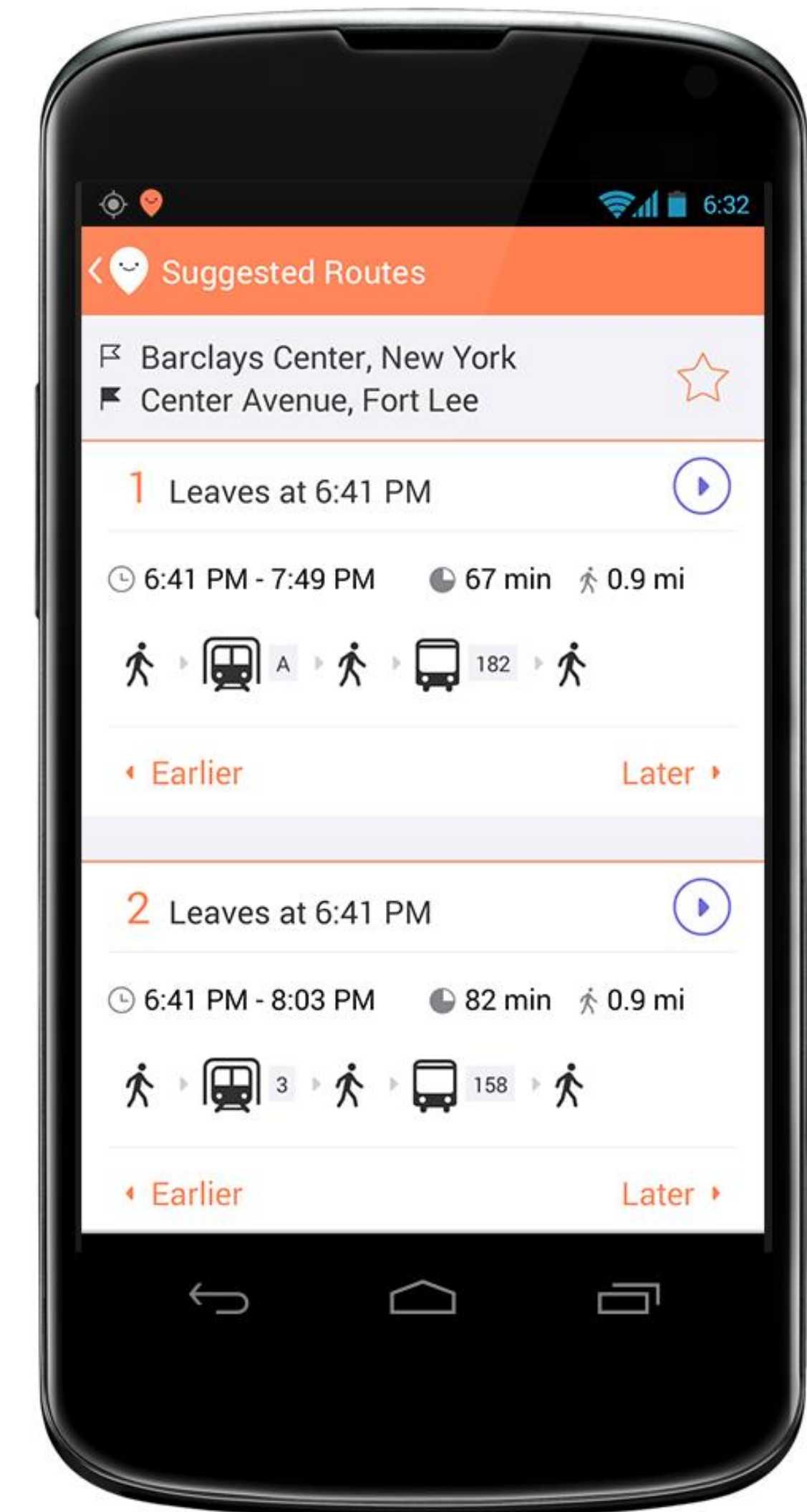
## MORE DATA MEANS MORE SERVICES



Public data in open format and available for commercial use may be a goldmine for the creation of new applications and services based on the availability of up-to-date and quality data.

## AN EXAMPLE: PUBLIC TRANSPORT IN REAL TIME

An example is our public transport app, which uses geo-referenced and real-time data for the position of public buses.





## Yet more...

In the supporting material for this module you will find other helpful information on the world of Open Data.

Happy browsing!



**WHAT ARE OPEN DATA**