



SMART CITIES – ESPIONAGE, COUNTERESPIONAGE & HUMAN RIGHTS

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IMD SMART CITY INDEX 2019

Discover the Smart City Index ranking

Overall ranking	City	Overall rating
1	Singapore	A A A
2	Zurich	A A A
3	Oslo	A A
4	Geneva	A A
5	Copenhagen	A A
6	Auckland	A
7	Taipei City	A
8	Helsinki	A
9	Bilbao	A
10	Dusseldorf	A
11	Amsterdam	A
12	San Francisco	A
13	Vancouver	A
14	Sydney	A
15	Toronto	A
16	Montreal	A
17	Vienna	B B B
18	Bologna	B B B
19	Prague	B B B
20	London	B B B
21	Madrid	B B B
22	Milan	B B B
23	Lyon	B B B
24	Melbourne	B B B
25	Stockholm	B B B
26	Hanover	B B B

Overall ranking	City	Overall rating
27	Brisbane	B B B
28	Gothenburg	B B B
29	The Hague	B B B
30	Dublin	B B B
31	Washington D.C.	B B B
32	Boston	B B B
33	Denver	B B B
34	Seattle	B B B
35	Los Angeles	B B B
36	Rotterdam	B B B
37	Hong Kong	B B B
38	New York	B B B
39	Berlin	B B B
40	Zhuhai	B B
41	Tianjin	B B
42	Chongqing	B B
43	Shenzhen	B B
44	Hangzhou	B B
45	Dubai	B B
46	Tel Aviv	B B
47	Seoul	B B
48	Barcelona	B B
49	Zaragoza	B B
50	Busan	B B
51	Paris	B B
52	Birmingham	B B

Overall ranking	City	Overall rating
53	Chicago	B B
54	Philadelphia	B B
55	Nanjing	B
56	Abu Dhabi	B
57	Guangzhou	B
58	Chengdu	B
59	Shanghai	B
60	Beijing	B
61	Warsaw	B
62	Tokyo	B
63	Osaka	B
64	Brussels	B
65	Ho Chi Minh City	C C C
66	Hanoi	C C C
67	Hyderabad	C C C
68	New Delhi	C C C
69	Krakow	C C C
70	Kuala Lumpur	C C C
71	Riyadh	C C C
72	Moscow	C C C
73	St. Petersburg	C C C
74	Ankara	C C C
75	Bangkok	C C C
76	Lisbon	C C C
77	Rome	C C C
78	Mumbai	C C

Overall ranking	City	Overall rating
79	Bengaluru	C C
80	Makassar	C C
81	Jakarta	C C
82	Medan	C C
83	Budapest	C C
84	Bratislava	C C
85	Bucharest	C C
86	Santiago	C C
87	Buenos Aires	C C
88	Mexico City	C C
89	Sofia	C C
90	São Paulo	C C
91	Medellin	C
92	Kiev	C
93	Cape Town	C
94	Manila	C
95	Athens	C
96	Rio de Janeiro	C
97	Abuja	D
98	Bogota	D
99	Cairo	D
100	Nairobi	D
101	Rabat	D
102	Lagos	D

Source:

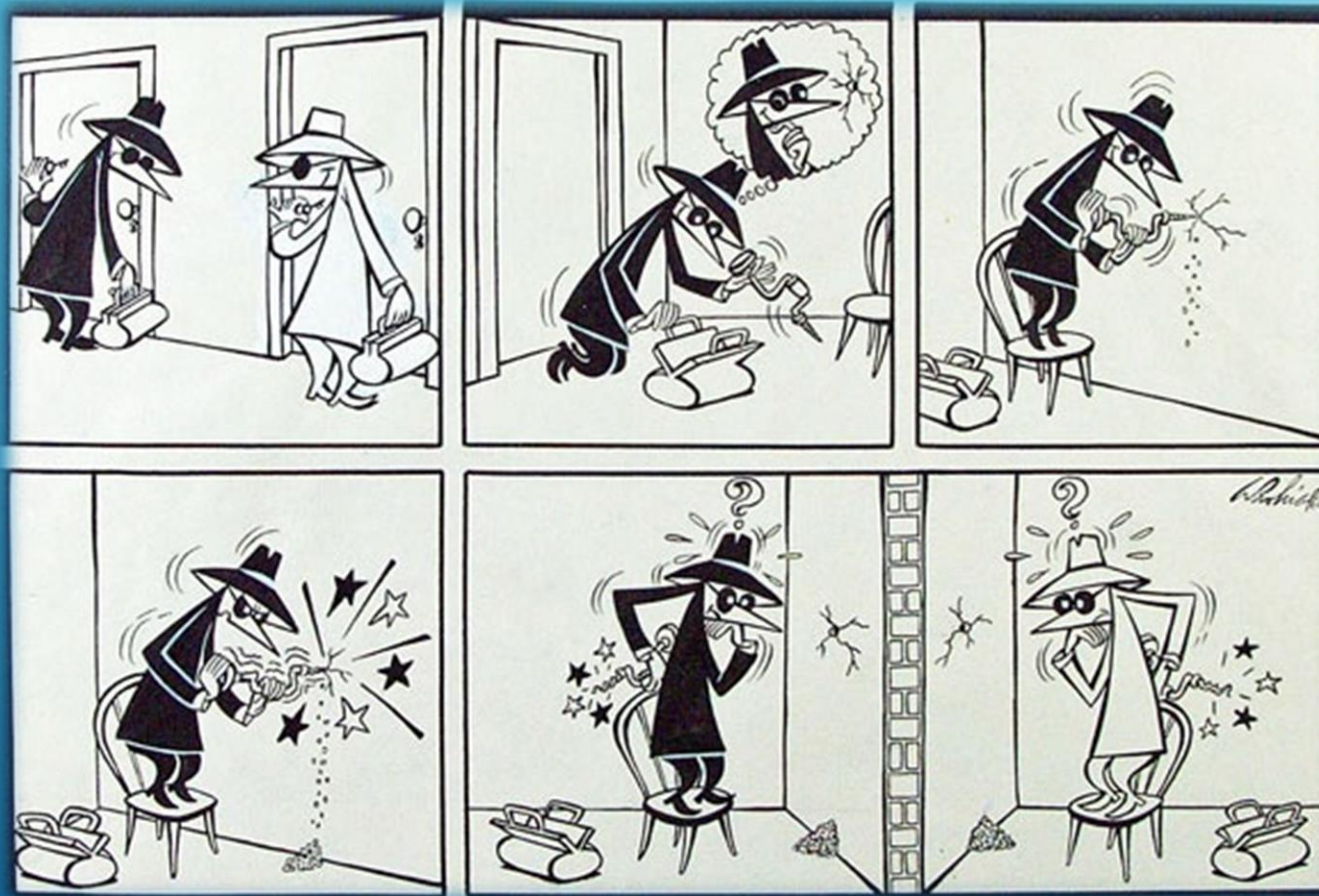
The IMD World Competitiveness Center's Smart City Observatory, in partnership with Singapore University of Technology and Design

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INTELLIGENCE – ESPIONAGE

COUNTERINTELLIGENCE – COUNTERESPIONAGE



Source: Antonio Prohías – Mad Magazine

COUNTERINTELLIGENCE - COUNTERESPIONAGE

Goals for both offensive and defensive CI/CE

- Identify leaks (technological, human)
- Control those leaks (double, deception)
- Close off leaks (neutralize, arrest)
- Prosecute those involved (closure, expose)



INTELLIGENCE – ESPIONAGE

HUMINT

- **Impediments**
 - Biometrics – Air travel, border points, public transport, services and point of sale?
 - Alias personas dead or neutralized?
 - Wide-area video & technical surveillance limiting?
 - Create alias-electronic personas?
- **Goals**
 - The Insider



INTELLIGENCE – ESPIONAGE

Goals

- **SIGINT / ELINT**
 - Collection opportunities?
 - SCADA – Drones – WANs
- **MASINT**
 - Energy – Sewage – Garbage – Exhaust



CRIMINAL

Unauthorized access

- Surveillance - CCTV hack
- Data manipulation
- Drone hijacking
- Internecine engagement



HUMAN RIGHTS

Privacy

- Citizens trading privacy for services?
- How lawful will lawful access really be?
- Right to disappear?
- Citizen ownership of data (commercial – government)



HUMAN RIGHTS

Privacy - Example

- **China – Hong Kong**
 - Government use of technology
 - Protesters engaged in countermeasures
- **Beaconology** – Self, Home, Office, Vehicles and Devices
- **Facial Recognition** – BuzzFeed's September 2019 “Times Square” test





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