

**Plausible scenarios related to the development, dissemination and adoption of automation technologies in the production base of developed and developing countries?**

**Session 4**



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- Two aspects of plausible scenarios we could expect in developed countries.
  - First, as manufacturing bases have been largely transferred to developing countries, enterprises will relatively easily embrace automation technology to replace existing combination technology/labor without major consequences on employment and local social stability.
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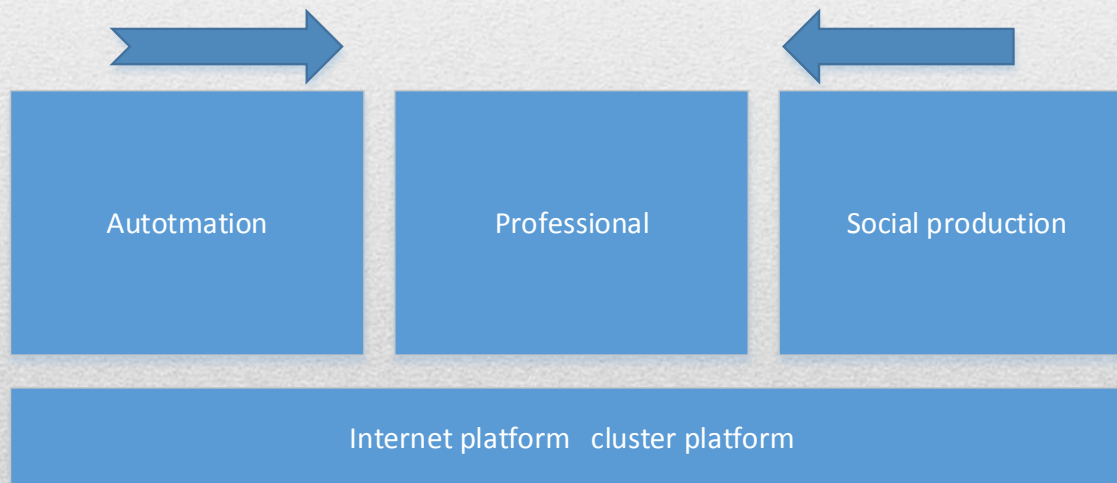
- Second, given the R&D capability very located in developed countries, it will be an opportunity to benefit from talent resources and automation patents to acquire new competitive advantage in the international labor division.
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- There are three aspects of scenarios we could expect in developing countries.
  - First, due to the cost compared with labor, automation technology will be adopted in a very limited scale.
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- Second, the manufacturing industries related to automatization will be massively relocated to developing countries because of the labor cost. Some countries will accumulate their manufacturing capacity and technology and get fully involved in modern world through imitation then catch-up advantage.
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- Third, for a country which attaches a great importance to social stability and refuses social changes, when the automation technology becomes gradually industrialized for production and services, the choice between adopting and banning will be a real dilemma and incur huge social cost.
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- Case 1
- JBJ and taobao
- Alternative to automation vs formal labor division



- Case 2 Ranking of smart cities
  - Smart Infrastructure
  - Smart economy
  - Smart governance.
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Ranking	City	Total Score	Smart Infrastructure						Smart Economy						Smart Governance							
			Access to Internet	Broadband Quality	Smart Traffic	Digital Economy	Knowledge Infrastructure		Innovation Capability	Software Develop	Digital Content	Information services	Cultural interaction	Cultural experience	Design industry		Service to Public	Service to Business	Public Admin	Social Network	Social Inclusion	
1	New York	4394	308	264	192	350	308	1422	250	240	220	250	240	230	240	1670	280	216	240	350	216	1302
2	London	4272	350	216	300	238	350	1454	250	250	250	110	250	250	250	1610	196	264	288	196	264	1208
3	Tokyo	3984	336	276	240	224	322	1398	180	170	240	230	190	200	120	1330	224	204	300	336	192	1256
4	Paris	3906	210	156	276	196	336	1174	250	230	200	190	230	240	130	1470	336	168	192	266	300	1262
5	Chicago	3738	308	252	240	322	112	1234	150	200	170	160	130	160	170	1140	252	300	252	308	252	1364
6	Singapore	3680	196	228	276	308	224	1232	150	210	210	220	220	90	220	1320	140	228	276	280	204	1128
7	Berlin	3668	252	168	276	210	252	1158	220	220	140	100	210	210	80	1180	350	300	180	224	276	1330
8	L. A.	3550	308	252	120	336	154	1170	220	160	190	70	180	190	170	1180	308	192	264	196	240	1200
9	Seoul	3508	224	300	240	252	280	1296	220	120	230	150	160	150	100	1130	182	132	204	336	228	1082
10	Hong Kong	3456	168	288	240	308	238	1242	180	180	190	170	110	100	210	1140	238	276	156	224	180	1074
11	Toronto	3322	266	204	300	266	140	1176	220	190	90	90	120	130	170	1010	294	252	168	266	156	1136
12	Sydney	3048	238	192	180	280	196	1086	180	140	70	120	170	110	170	960	154	156	216	308	168	1002
13	Moscow	2964	140	180	156	84	266	826	110	110	170	130	140	220	200	1080	322	240	144	196	156	1058
14	Beijing	2744	182	108	120	126	294	830	110	150	110	200	200	170	190	1130	266	144	120	98	156	784
15	Shanghai	2566	154	108	156	126	168	712	120	130	80	240	150	140	240	1100	210	180	132	112	120	754
16	Buenos Aires	2510	126	120	168	140	196	750	70	80	130	140	100	180	60	760	168	120	228	196	288	1000
17	Dubai	2468	322	144	132	182	84	864	150	90	150	180	70	120	190	950	112	84	96	266	96	654
18	Mumbai	1768	84	72	84	98	98	436	90	100	110	210	80	80	90	760	126	108	120	98	120	572
19	Cairo	1700	98	132	72	168	224	694	60	60	120	60	90	70	70	530	84	72	84	140	96	476
20	Rio de Janeiro	1604	112	84	96	154	126	572	80	70	60	80	70	60	110	530	98	96	72	140	96	502

# Thank You!

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