

CURRENT APM IMPLEMENTATIONS

Note: The information is what is available 12/10 and excludes O&M contracts

FALL, 2010

Site/Project	Service	Configuration	Cost(\$m)	Supplier
<u>Projects of Architectural Scale (airports)</u>				
Titanic Ride	EU	2011	Small, low-capacity ride	2 WGH
Sacramento	USA	2011	335m shuttle	30 Bombardier
Kuala Lumpur	Asia	2011	New MCF with spur, 3 vehicles	57 Bombardier
Doha, Qatar	ME	2011	600m shuttle	66 DCC
Dubai	ME	2011	Tunneled T-3 to concourses	73 MHI
Cairo Airport	Africa	2011	1.8km, 4-station cable-propelled	50 Poma-Leitner
Las Vegas	USA	2012	0.4km underground shuttle to Terminal 3	43 Bombardier
Phoenix Airport	USA	2012	3.5km, 18 vehicles (+O&M)	186 Bombardier
<u>Atlanta - extension</u>	<u>USA</u>	<u>2012</u>	<u>370m extension with 10 new vehicles</u>	<u>63 Bombardier</u>
Total			507	
<u>Projects of Institutional Scale</u>				
Morgantown PRT	USA	2011	Upgrade vehicle comm/controls-II	2 Azimuth
Rome Cybercar Demo	EU	2011	Two robocars + 4 by 2012	5 Robosoft
Makkah Hajj Line	ME	2011	Controls for 18km, 6+ stations, elevated	50 Thales
Busan-Gimhae Airport PPP	Asia	2011	24km, 18-sta ~elevated, steel/steel	300 Hyundai/Rotem-Thales
Daejon	Asia	2012	7km maglev demo	471 Hyundai
Caracas	Latin	2012	2.3km, 5-station	75 DCC
Suncheon PRT	Asia	2012	5km?, 3-station parking to nature preserve	100 Vectus
London DLR	EU	2012	4-station ext. to Olympic, etc.	700 Thales-Bombardier
Incheon Rail Link	Asia	2012	6km, 6-station airport-rail maglev	300 Hyundai-Rotem
MIA-mover	USA	2012	2.4km landside	259 Sumitomo-MHI
Oakland Connector	USA	2012	5.1km airport link w/out mid-station	100 DCC - PPP
Riyadh Nura University	ME	2012	11km in extensive women's campus	223 Ansaldo
Riyadh Financial Dist.	ME	2012	4km, 6-stat, 12-vehicles	241 Bombardier
Bologna Airport-to-City	EU	2013	5km single-track, midway 3 stat at univ	27 Intamin
<u>Porto Allegre</u>	<u>Latin</u>	<u>2014</u>	<u>1km shuttle from airport to rail</u>	<u>25 Aeromovel</u>
Total			2,878	

Projects of Metro/Transit Scale

Dubai Green	ME	2011	23Km with 14 stat	500	MHI-Thales-KinkoSharyo
Seoul Yong-In	Asia	2011	19km ~elev. w/15 stations as 35yr BTO	600	Bombardier
Paris- Line 1	EU	2011	Upgrade to driverless operation	100	Siemens-TS
Miami Metromover	USA	2011	17 more vehicles	31	Bombardier-ATS
Seoul Uijeongbu	Asia	2011	11km elevated with 14 station	180	Siemens TS
Brescia Metro	EU	2012	13km part underground with 17 stations	310	Ansaldo
Milan - 5	EU	2012	5.6km, 9 station concession	190	Ansaldo
Thessaloniki	EU	2012	9.5km, 13 station underground	500	Ansaldo
Sao Paulo - Line 4	Latin	2012	Controls for 13km, 11-station line	105	Siemens-TS
Sao Paulo - Line 4	Latin	2012	84 vehicles	150	Rotem
Budapest - 4	EU	2012	Controls for 8km, 10 stat tunneled	135	Siemens TS
Singapore - Circle	Asia	2013	35km with 30 stations	800	Alstom
Rome - C	EU	2013	25km underground with 30 station	500	Ansaldo
Helsinki	EU	2013	Metro retrofit to driverless + extension	230	Siemens TS
Bangkok Skytrain	Asia	2013	35 vehicles	66	Siemens
Incheon 2	Asia	2014	30km, 27 stations	500	Thales + Hyundai-Rotem
Barcelnoa- Line 9	EU	2014	Completion to 48km buildout	300	Siemens, Alstom
Brussels	EU	2014	115 vehicles capable of driverless op.	260	Siemens-Bombardier
Taipei Circle	Asia	2015	52km, 47 stations	431	Ansaldo
Sao Paulo- Exp, Tiradentes	Latin	2015	24km elevated	816	Bombardier
Lyon A+B	EU	2015	Conversion to driverless operations	75	Areva
Singapore-Downtown	Asia	2016	20km, 33-stat, 219-vehicle line	572	Bombardier
Rennes - B	EU	2018	13km, 15-stat, 38 vehicles	288	Siemens TS
<u>Copenhagen Ringen</u>	<u>EU</u>	<u>2018</u>	<u>16km underground with 17 new stat</u>	<u>1,000</u>	<u>Ansaldo</u>

Total

7,228

Total APMs

10,613

ATO + ATTENDANTS (NB: list is not exhaustive)

Paris - 13	EU	2010	22.5km, 30-stat. capacity enhancement	60	Thales
Budapest - 2	EU	2010	11km underground line	34	Siemens-TS
Wuhan Metro	China	2010	10m (-->30km) with 10 (-->26) stations	15	Thales
Paris- Lines 3,5,9,10+12	EU	2010	ATO upgrades	100	Siem.+Technat.,Ansaldo
Delhi - Lines 5 + 6 +6more	India	2010	Control/signaling systems	43	Bombardier
Chongqing		2011			Siemens
London Jubilee	EU				
Shenyang	China	2011	Upgrade and extension to 28km	100	Ansaldo
Sao Paulo - 1, 2, 3	SoAm	2011	Moving block controls, later driverless	400	Alstom
Gurgaon-Delhi	India	2012	6km, 6-station , 15veh metro-feeder		Siemens
Sao Paulo - 8, 10, 11	SoAm	2011	CBTC controls	400	Invensys (W'house Rail)
Toronto	Can	2012	New fleet and control upgrade	500	Alstom
Amsterdam N-S line	EU	2012			Alstom
NYC-Flushing	USA	2014	Signaling upgrades	343	Thales
NY/NJ PATH Upgrade	USA	2011	Intgrate various communication systems	25	Ansaldo
NY/NJ PATH Upgrade	USA	2011	Project management for above	21	Booz-Allen
<u>NY/NJ PATH Upgrade</u>	<u>USA</u>	<u>2017</u>	<u>Positive train control</u>	<u>340</u>	<u>Siemens-Safetran</u>
			Total	2,381	
			GRAND TOTAL	12,994	