

CURRENT APM IMPLEMENTATIONS

FALL, 2008

Note: The information is what is available 12/08 and excludes O&M contracts.

Site/Project	Service	Configuration	APM Cost(\$m)	Supplier
Projects of Architectural Scale (airports)				
Atlanta - Conrac	USA	2009	2.4km elevated with 3 stations	191 MHI
London Heathrow - PRT	UK	2009	4km parking demo elev./tunnel, 5 stat.	20 ATS
Las Vegas	USA	2009	Rehab shuttles	43 Bombardier
Washington - Dulles	USA	2009	3.5km tunneled with 6 stat	170 MHI-Sumi.-Thales
Atlanta - control upgrade	USA	2009	ATO replacement	18 Bombardier
Miami - AA	USA	2010	2.6km rooftop line with 4 stat, mothballed	70 MHI-Sumi.-Thales
Zurich	EU	2010	Three additional vehicles	5 Otis
London-Gatwick	UK	2010	Replace 1.2km shuttle, 6 vehicles	46 Bombardier
Chicago O'Hare	USA	2010	Fleet regeneration	30 In procurement?
Houston	USA	2010	440m, one stat extension w/ 4 vehicles	43 Bombardier
Sacramento	USA	2011	335m shuttle	30 Bombardier
Kuala Lumpur	Malay	2011	New MCF with spur, 3 vehicles	57 Bombardier
Doha	Qatar	2011	600m shuttle	66 DCC
Las Vegas	USA	2011	0.4km underground shuttle to Terminal 3	43 Bombardier
<u>Atlanta - extension</u>	<u>USA</u>	<u>2012</u>	<u>370m extension with 10 new vehicles</u>	<u>63 Bombardier</u>
Total			832	

Projects of Institutional Scale

Morgantown PRT	USA	2009	Upgrade vehicle comm/controls-II	2	Azimuth
Venice	EU	2009	0.8km one-lane w/bypass with 3 stat	19	DCC
Dubai Palm Jumeirah	UAE	2009	5.4km 4-station attended "monorail"	378	Hitachi/Marubeni
Hong Kong Airfront	China	2009	~3km, 6-station extension to SkyPier	25	IHI
Las Vegas CityCenter	USA	2009	0.7km with 3 stations	60	DCC
Incheon- Wolmido Island	Korea	2009	6km, 4-station "monorail"	65	Rowin-Urbanaut
Korea PRT Demo	Korea	2009	Maglev test facility	57	KRRI-Rotem
Jacksonville DPM	USA	2009	Control upgrades	2	Thales
Busan-Gimhae PPP	Korea	2011	24km, 18-station mostly elevated, steel whe	300	Hyundai/Rotem-Thales
Daejon	Korea	2011	5-year 7km maglev demo	471	Hyundai
London DLR	UK	2012	4-station ext. to Olympic, etc.	700	Thales-Bombardier
<u>Incheon Rail Link</u>	<u>Korea</u>	<u>2012</u>	<u>6km, 6-station airport-rail maglev</u>	<u>300</u>	<u>Hyundia-Rotem</u>
Total				2,379	

Projects of Metro/Transit Scale

Kuala Lumpur Monorail	Malay	2008?	Upgrade to driverless operation	40	Siemens-TS
Taipei - Neihu	Taiwan	2009	15km extension of Mucha, with 12 stat	500	Bombardier-ATS
Brescia Metro	EU	2009	18km part underground with 25 stations	310	Ansaldo
Circle Line	Singa	2009	34km with 19 stations	800	Alstom
Vancouver - Canada Line	Can	2009	20km elevated with 18 stat to ariport	500	SNC/Serco/Thales/Rotem
Dubai Red	UAE	2009	52Km mostly elevated with 23 stat	700	MHI-Thales-KinkoSharyo
Seoul Yong-In	Korea	2009	19km ~elev. w/15 stations as 35yr BTO	600	Bombardier
Barcelona - 9	EU	2009	41km 2/3-underground with 43 stat	400	Siemens, Alstom
Paris- Line 1	EU	2010	Upgrade to driverless operation	100	Siemens-TS
Guangzhou-Tianhe	China	2010	4km, 9-station, 14 vehicle metro-feeder	71	Bombardier
Shanghai- Line 10	China	2010	Contols	60	Alstom
Sao Paulo - Line 4	Brasil	2010	Controls for 13km, 11-station line	105	Siemens-TS
Sao Paulo - Line 4	Brasil	2010	84 vehicles	150	Rotem
Dubai Green	UAE	2010	18Km (40% underground) with 14 stat	500	MHI-Thales-KinkoSharyo
Kuala Lumpur Monorail	Malay	2010	New vehicles	210	Bombardier-ATS
Budapest - 4	EU	2010	Controls for 8km, 10 stat tunneled	135	Siemens TS
Miami Metromover	USA	2011	17 more vehicles	31	Bombardier-ATS
Milan - 5	EU	2011	5.6km, 9 station concession	190	Ansaldo
Seoul Uijeongbu	Korea	2011	11km elevated with 14 station	180	Siemens TS
Thessaloniki	EU	2012	9.5km, 13 station underground	500	Ansaldo
Helsinki	EU	2013	Metro retrofit to driverless	120	Siemens TS
Rome - C	EU	2013	25km underground with 30 station	500	Ansaldo
Brussels	EU	2014	115 vehicles capable of driverless op.	260	Siemens-Bombardier
Downtown Line	Singa	2016	40km, 219-vehicle line	572	Bombardier/Westinghouse Rail(UK)
<u>Copenhagen Circle</u>	<u>EU</u>	<u>2017</u>	<u>15km underground with 17 new stat</u>	<u>900</u>	<u>In procurement</u>

Total

7,494

ATO + Attendants (not exhaustive: Algiers? Istanbul? Nanjin? Sao Paulo et al.?)

Paris - 13	EU	2009	22.5km, 30-stat. capacity enhancement	60	Thales
Bangkok Express	Thail	2009	29km airport express and local lines	100	Siemens-TS
Budapest - 2	EU	2009	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	India	2010	Control/signaling systems	43	Bombardier
PATH upgrade	USA	2011	New fleet and control upgrade	1,400	In procurement
<u>Toronto</u>	<u>Can</u>	<u>2012</u>	<u>New fleet and control upgrade</u>	<u>500</u>	<u>Bombardier +</u>
			Total	2,252	
			GRAND TOTAL	12,957	