



Dubai Self-driving Transport Strategy Vision & World Challenge

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About Dubai



Dubai – A Rapidly Growing City 1970 2016

2030



Who are we? What transportation Modes we have?



A Vision for the Future of Transport



Reduce transportation costs by 44 percent or AED 900 million, saving AED 1.5 billion through reduction of environmental pollution, and AED 18 billion through raising efficiency of the transport sector by 20 percent.



By 2030, 25 percent of all transportation TRIPS in Dubai will be smart and driverless. The strategy is projected to generate economic revenues and savings of up to AED 22 billion a year.

- His Highness Sheikh Mohammad Bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai





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RTA SDT Strategy Summary



...and it defines 2030 targets for self-driving technology adoption for each of the public transports modes

SDT Targets per Mode (as a % of total trips)

	2017	2030
Metro	9%	12.2%
Tram	0%	0.2%
Shuttle & Cable Cars	0%	2.5%
Marine Transport	0%	0.2%
Taxi / Rideshare	0%	3.5%
BRT, Rider & Runner	0%	6.4%
	Total Self-Driving PT	25%

Dubai Strategy Key Enablers



1. Legislation	•Testing AND Operations
2. Driver Behavior & Acceptance	Driver behavior in Level 2-3 vehiclesDriver acceptance of SDT
3. Driver & Vehicle Licensing/Registration	 SDT driver licensing SD vehicle testing, registration, renewal
4. Insurance/Liability	 Crash liability of self-driving vehicles Insurance requirements
5. Infrastructure Requirements	 Infrastructure improvements for SDT Crowd sourcing and analytics
6. Cyber security/Data Privacy	 Self-driving vehicle security On-board data recording and retrieval
7. Connected Vehicle Enablers	•Communication (V2I, V2V, V2X) •Connected cloud
8. HD Mapping	•Accurate HD Mapping

KPMG Report- Autonomous Vehicles Readiness Index



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So where UAE stands at the moment among the world..

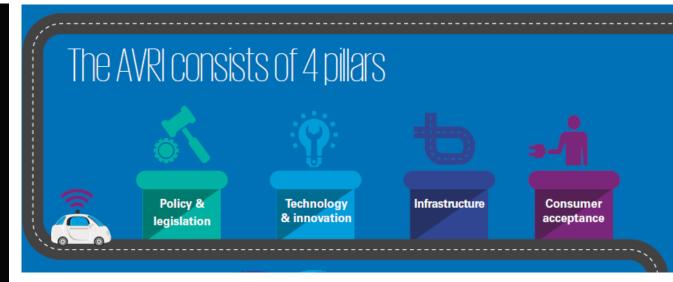
kenne Autonomous Vehicles Readiness Index

Assessing countries' openness



Dubai Media Office <a>(a) <a>(a) <a>(b) <a>

#UAE has ranked among the top 10 countries in the world according to @KPMG 's Autonomous Vehicle Readiness Index for 2018, which shows which countries are most prepared for driverless cars.



₹ 6th 14th 5th **1**4th



RTA SDT Strategy Summary



The RTA Self-Driving Transport (SDT) strategy aims to make Dubai the leader in the world for SDT...

Unique SDT – Areas of Focus

Multimodal SDT



- Dubai is targeting self-driving transport across all 7 modes of public transport
- This will enable a harmony of SD systems across transport modes

Worldwide SDT Challenge



- Competition will attract manufacturers, operators, researchers and academics
- Dubai will be exposed to new strengths and capabilities

SDT Operations Policies/Legislation



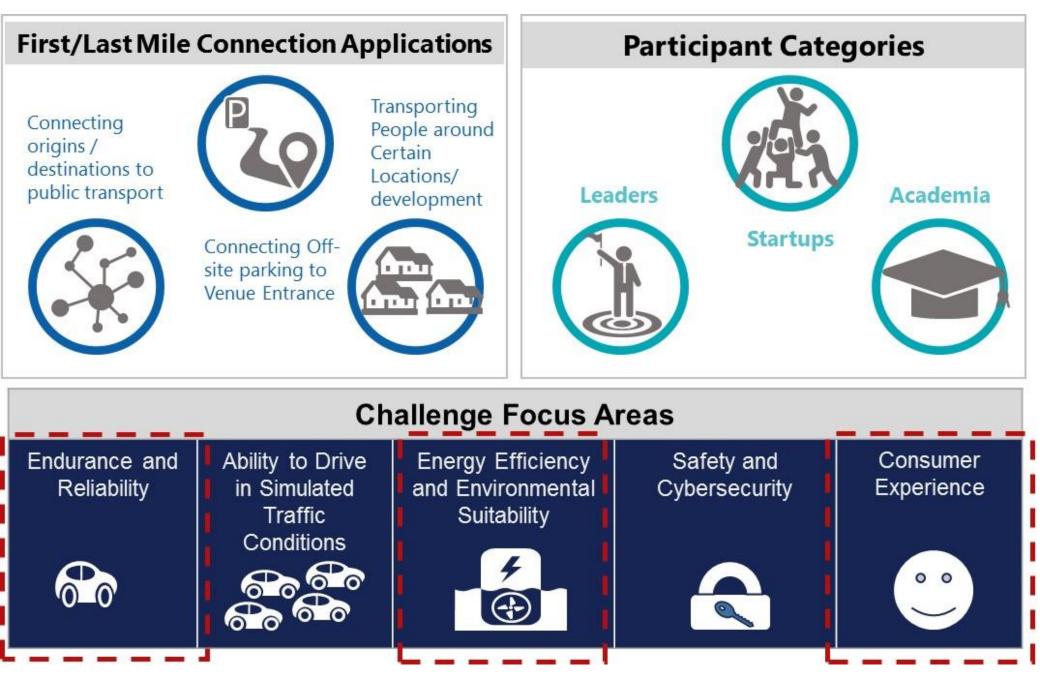
- There exists a clear and significant gap in policies and legislation related to the revenue based operation of self-driving vehicles
- Dubai should lead the world in developing these policies and legislation to allow full operation of self-driving vehicles on the public streets in Dubai

Dubai World Challenge for Self-Driving Transport

www.sdchallenge.com

تحدي دبي العالمي للتنقل ذاتي القيادة DUBAI WORLD CHALLENGE FOR SELF-DRIVING TRANSPORT

2018 2019







Leaders

- US\$ 1 Million / Three finalists \$1M each for different streams /
- Pilot operation for the 1st place -- Exclusive

Startups

- US\$ 1 M for the 1st place and Golden Ticket Dubai Future Accelerator
- US\$ 500,000 for the runner-up



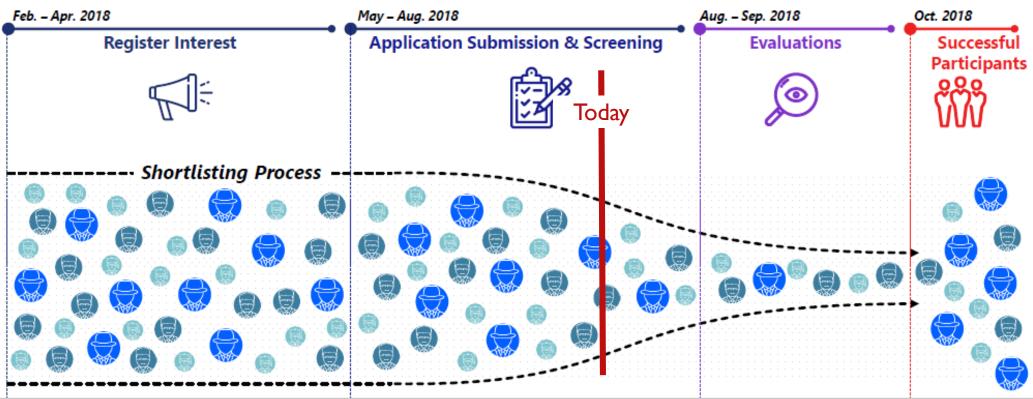
Academia

- Local: 1st Place US\$ 200,000 and runner-up US\$ 100,000
- International: 1st Place US\$ 200,000 and runner-up US\$ 100,000

Dubai Challenge Timeline for Application



Phase I



Awards at "Dubai World Congress for Self-driving Transport"

Site for First/Last Mile Connection



Dubai SDT.. The Future



Self-driving Transport is a reality in Dubai....More to come in the Future



دبي هي الوجهة الأمثل لمستقبل النقل

Dubai is the Ideal Platform for Transportation Innovations

Check these links:

www.sdchallenge.com www.sdcongress.com

