Dubai Self-driving Transport Strategy
Vision & World Challenge

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Dubai – A Rapidly Growing City

1970
- Developed Area = 18 km²
- Population = 100,000

2016
- Developed Area = 950 km²
- Population = 2.8 Million

2030
- Expected developed area = 1900 km²
- Forecasted population = 5.2 Million

Dubai Area = 4114 km²

Dubai population = 2.8 M | 16 Million visitors in 2016

Dubai is 5% of UAE total area

Dubai has 30% of UAE total population
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
RTA SDT Strategy Summary

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

<table>
<thead>
<tr>
<th>Mode</th>
<th>2017</th>
<th>2030</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metro</td>
<td>9%</td>
<td>12.2%</td>
</tr>
<tr>
<td>Tram</td>
<td>0%</td>
<td>0.2%</td>
</tr>
<tr>
<td>Shuttle &amp; Cable Cars</td>
<td>0%</td>
<td>2.5%</td>
</tr>
<tr>
<td>Marine Transport</td>
<td>0%</td>
<td>0.2%</td>
</tr>
<tr>
<td>Taxi / Rideshare</td>
<td>0%</td>
<td>3.5%</td>
</tr>
<tr>
<td>BRT, Rider &amp; Runner</td>
<td>0%</td>
<td>6.4%</td>
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Total Self-Driving PT        | 25%  |
# Dubai Strategy Key Enablers

| 1. Legislation                          | • Testing AND Operations |
| 2. Driver Behavior & Acceptance         | • Driver behavior in Level 2-3 vehicles  
|                                          | • Driver 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 |
So where UAE stands at the moment among the world.. 

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

### Unique SDT – Areas of Focus

<table>
<thead>
<tr>
<th>Multimodal SDT</th>
<th>Worldwide SDT Challenge</th>
<th>SDT Operations Policies/Legislation</th>
</tr>
</thead>
</table>
|   - Dubai is targeting self-driving transport across all 7 modes of public transport  
   - This will enable a harmony of SD systems across transport modes  |   - Competition will attract manufacturers, operators, researchers and academics  
   - Dubai will be exposed to new strengths and capabilities  |   - 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
Dubai Challenge Categories and Awards

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 1**

- **Feb. - Apr. 2018**: Register Interest
- **May - Aug. 2018**: Application Submission & Screening
- **Aug. - Sep. 2018**: Evaluations
- **Oct. 2018**: Successful Participants

**Awards at “Dubai World Congress for Self-driving Transport”**
Site for First/Last Mile Connection

Exclusive Route
Loop Length: 1.65km
Total Length: 3.36km
Dubai SDT.. The Future

Self-driving Transport is a reality in Dubai…. More to come in the Future
Dubai is the Ideal Platform for Transportation Innovations

Check these links:

www.sdchallenge.com
www.sdcongress.com

THANK YOU

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