“Operating Systems”
for Cars
-For Connected Electric Vehicles-

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Vehicle IT Div. Silicon Valley
Key Innovations on Vehicles

Automated

Electrified

More intelligence
Advanced HMI
Big Data
New Business

More confidence

More personalize

More integration

More confidence

Connected

More intelligence

More integration

NISSAN MOTOR CORPORATION
Connected Electric Vehicle

In-Vehicle IT and connected systems supports electric vehicle user experience:

- Fastest route
- Nearby charging stations
- Driving range
- Energy information
## Connected Electric Vehicle

Connected service for both on-board and off-board provides peace-of-mind

<table>
<thead>
<tr>
<th>Before drive</th>
<th>While driving</th>
<th>After drive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charge status check &amp; Full charge notice</td>
<td>Driving range</td>
<td>Review trip</td>
</tr>
<tr>
<td>Pre-cooling control</td>
<td>Nearby charging station &amp; Information update</td>
<td>Timer charging &amp; Remote charging</td>
</tr>
</tbody>
</table>

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Connected Electric Vehicle

Driving experiences are socially shared under appropriate privacy protection
Connected Electric Vehicle

Connect to 3rd party under appropriate privacy protection

Gamified standard LEAF services

http://www.nissan-global.com/EN/NEWS/2012/_STORY/120201-01-e.html
Connected Electric Vehicle

Connect to home and grid enhances total energy efficiency
Connected Car Meets New World

Fast-going consumer electronics and its technologies are entering vehicle

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Holistic View of Connected Car Operation and its System

“Operation” needs to be considered in total system including cloud, mobile, and 3rd parties
Require appropriate security and privacy protection
Need to be Considered

10+ years life cycle
Thank you very much!

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