DXC Robotic Drive encompasses the platform, toolkit and expertise that vehicle manufacturers need to rapidly evolve the autonomous driving (AD) development process — simplify AD data and workload management over ever-increasing amounts of sensor data on a petabyte scale. DXC Robotic Drive helps you:

- **Achieve higher levels of autonomy faster**
- **Reduce research and development costs**
- **Build the better driver**
- **Support all AD workloads and data formats**
- **Reach disengagement rates less than 0.001%**

**AD evolution stages & challenges**

<table>
<thead>
<tr>
<th>AD evolution stage</th>
<th>DXC Robotic Drive</th>
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</thead>
<tbody>
<tr>
<td>Collect, ingest and store data</td>
<td>• Get preprocessed and secure data input with onboard time to drive • Utilize preprocessed data for go-live data organization and platform to manage functionality on data of petabyte scale at autonomous locations</td>
</tr>
<tr>
<td>Manage, analyze AD sensor data</td>
<td>• Implement straightforward and scalable workflows • Share, analyze and wrangle on a petabyte scale • Stream, compute and write on size of data in a highly distributed way • Multi-tenant for development cooperation</td>
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<tr>
<td>Perception/Localization</td>
<td>• Data from sensor-to-sensor • Develop driving strategy based on localization understanding • Link to backend development tool flow for vehicle integration</td>
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<tr>
<td>Results</td>
<td>• Reduce test drive timelines • Achieve significant cost savings • Accelerate time to market and production</td>
</tr>
<tr>
<td>Functional test/Recompute</td>
<td>Manage and automate deployment of functional testing frameworks for data collection, pre-processing and post-processing to AD, HD and HIL • Reduce requirements to test vehicles, shorten loop time • Increase overall AD performance and decrease fault/incident rates</td>
</tr>
<tr>
<td>Test/road approval</td>
<td>• Provide road-authorized domain event and test-kilometer frameworks for sharing and executing proof-of-concept research • Great accuracy to relevant test results • Reduce disengagement rate to less than 0.001% over 1,000 km</td>
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</table>

Use the best AD tools, data and compute platforms for managing ingest, storage, analysis on automotive forms as well as compute for training, evolution and functional testing for building your autonomous vehicle.

**DXC Robotic Drive**

**Collect, ingest and store data**
- Maximum data input speed of 6 GB/s to 8 GB/s from R&D AD vehicle
- Enforce enterprise security
- Implement ingest and storage workflows
- Store hundreds of petabytes of data

**Manage, analyze AD sensor data**
- Implement straightforward and scalable workflows
- Share, analyze and wrangle on a petabyte scale
- Stream, compute and write on size of data in a highly distributed way
- Multi-tenant for development cooperation

**Perception/Localization**
- Data from sensor-to-sensor
- Develop driving strategy based on localization understanding
- Link to backend development tool flow for vehicle integration

**Results**
- Reduce test drive timelines
- Achieve significant cost savings
- Accelerate time to market and production

**Functional test/Recompute**
- Implement and automate functional testing incoproporate process
- Integrate functional testing into AD vehicle
- Recompute algorithms at scale

**Test/road approval**
- Reduce disengagement rate
- Accelerate street approved