IoT in Enterprise
Welcome & Opening Remarks

David Intersimone “David I”

Evans Data Corporation
340 Soquel Ave.
Santa Cruz, Calif.
www.evansdata.com
@evansdatacorp
IoT in Enterprise Chair:

David Intersimone “David I”
Vice President of Developer Communities
Evans Data Corporation
Delivering Developer Focused Data Since 1998

44+ years as a Software Engineer, Development Manager, and VP of Developer Relations and Chief Evangelist

davidi@evansdata.com
https://www.linkedin.com/in/davidi99/
davidi99
@davidi99
How important is the Internet of Things to your overall digital strategy?

Global Distribution of Internet of Things Development

APAC developers are the most likely to currently engage in IoT projects, and are also the most likely to have IoT development in their plans.
Deployment Targets Reached in IoT

52%
Consumer (e.g. Connected Home, Consumer Wearables, Connected Car)

43%
Industrial (e.g. Manufacturing, Energy Production, Construction, Heavy Industry)

57%
Commercial, non-industrial (e.g. Healthcare, eCommerce, Retail, Finance)

14%
Civil Infrastructure / Smart Cities (e.g. Transportation, Telecommunications, Public Utilities)
Which of the following best describes your Industrial Internet of Things projects?

- Manufacturing
- Security & Surveillance
- Distribution / Logistics
- Energy Production
- Facilities management
- Resource Automation
- Healthcare
- Asset Monitoring & Maintenance
- AR
- Public / Workplace Safety
- Other

Top 7 Challenges in IIoT Application Development

- Post deployment analytics
- Incompatible networking standards
- Lack of industrial platform functionality
- Government regulations & restrictions
- Data management
- High security requirements
- Lack of Industrial process know-how
IoT and Technologies

Reasons AI and ML developers who are developing for IoT require Big Data capabilities:

- **Velocity**: 56%
- **Volume**: 33%
- **Variety**: 8%

Do your connected device project collect data from multiple device types for machine learning models?
- Yes: 62%
- No: 38%

Are the devices connected in your IoT projects capable of running trained machine learning models on the device side?
- Yes: 57%
- No: 33%
- I'm not sure: 10%
<table>
<thead>
<tr>
<th>Which best describes the types of sensors you support?</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position/Presence/Proximity</td>
<td>34.2</td>
</tr>
<tr>
<td>Motion/Velocity/Displacement</td>
<td>33.7</td>
</tr>
<tr>
<td>Acceleration/Vibration</td>
<td>31.3</td>
</tr>
<tr>
<td>Electric/Magnetic</td>
<td>30.8</td>
</tr>
<tr>
<td>Pressure</td>
<td>28.1</td>
</tr>
<tr>
<td>Optical / Machine Vision</td>
<td>27.1</td>
</tr>
<tr>
<td>Temperature</td>
<td>26.1</td>
</tr>
<tr>
<td>Acoustic/Ultrasonic</td>
<td>24.1</td>
</tr>
<tr>
<td>Humidity/Moisture</td>
<td>23.6</td>
</tr>
<tr>
<td>Force/Load/Torque/Strain</td>
<td>23.2</td>
</tr>
<tr>
<td>Flow</td>
<td>22.2</td>
</tr>
<tr>
<td>Chemical/Gas</td>
<td>21.7</td>
</tr>
<tr>
<td>Leak/Level</td>
<td>19.5</td>
</tr>
</tbody>
</table>

Top 5 Important Technologies for IIoT Development

- Big Data management
- Cloud management
- Machine / Sensor connectivity
- Cyber-security
- Data science / advanced analytics
What technical resources can an IoT platform or tool vendor provide that would be most beneficial to your Internet of Things development?
Full Service Developer Research Firm

Exclusive focus on developer niche

Insights and data stemming directly from developers themselves

Dozens of surveys conducted each year to deliver fresh and focused data

Quantitative and Qualitative research

Syndicated Surveys
  • Covers key trending areas such as IoT, AI & Big Data, Machine Learning and Cloud
  • Developer Populations forecasts across regions and technologies
  • Tactical reports on Developer Marketing and Developer Relations Programs

Custom Surveys
  • NPS – user satisfaction, Developer Persona Profiling and Outreach, Competitive Benchmarking

Targeted Analytics

Consulting – Developer Program Advisory Services
Have a Great Day!

David Intersimone “David I”
Email: davidi@evansdata.com
Blog: https://www.devrelate.com/blog/
LinkedIn: https://www.linkedin.com/in/davidi99/
Skype: davidi99
Twitter: @davidi99