



# Autonomous Systems 2.0 Intelligence

## Next Generation Automation, Including Robotics, Drones, and Autonomous Vehicles

Beyond conventional process automation lies an area of dramatic innovation. Semi- and fully autonomous systems promise to change the way things are made, and how goods and people are transported. This area is rapidly emerging and innovation in hardware, software, and system integration is critical to ensure reliable and efficient automation that meets the needs of end-users. From sensors and controls to data analytics, the area is ripe with uncertainty – and opportunity. There are numerous ways for corporations to participate in the value chain, or simply benefit from using the next generation of autonomous systems in their businesses, and the Autonomous Systems 2.0 service is dedicated to bringing these opportunities to the forefront. The Autonomous Systems service will address questions such as:

- > What sensor technologies on the horizon improve the viability of autonomous systems?
- > How much can software and machine learning compensate for less sophisticated sensors?
- > How will policy and safety dictate the adoption of autonomous vehicles and drones?
- > How will mobile robotics enable new efficiencies in logistics?
- > Who are the leading robotics start-ups and research groups globally?

### Intelligence Access

For more information on how to access the Lux Autonomous Systems 2.0 Intelligence service, contact your Lux Research account manager, or call +1-888-589-7373 or +1-617-502-5300. Send email to [info@luxresearchinc.com](mailto:info@luxresearchinc.com). Visit us on the web at [www.luxresearchinc.com](http://www.luxresearchinc.com).

### Sample Autonomous Systems 2.0 Topics

#### Technologies

- Robotic/system components:
  - > Grippers, end effectors
  - > Sensors
  - > Actuators
  - > Controls
  - > Software (e.g. perception, machine learning)
- Autonomous (or semi-autonomous) systems:
  - > Industrial robots
  - > Humanoid robots
  - > Autonomous vehicles
  - > UAVs/drones
  - > Service robots
  - > Surgical robots
- Automation infrastructure:
  - > V2X
  - > Industrial internet (M2M)
  - > Data analytics

#### Applications

- > Advanced manufacturing
- > Agriculture
- > Automotive
- > Exploration and Production
- > Hazardous environment operations
- > Heavy transport
- > Inspection
- > Logistics/Materials handling
- > Mapping
- > Mobile health
- > Medical procedures
- > Predictive Maintenance
- > Security and surveillance

#### Companies

- > AgroBot
- > Airframe
- > Autotalks
- > Bluefin Robotics
- > Cruise
- > CyPhy Works
- > Denso
- > EXO-UL7
- > Fastree3D
- > GE
- > Google
- > Harvest Automation
- > Nissan
- > Quanergy
- > RedZone Robotics
- > Universal Robots
- > Velodyne Technology

### Lux Research Difference

The Lux Autonomous Systems 2.0 Intelligence service is unique because it is:

#### Proprietary

Offers exclusive insights from primary interviews and site visits

#### Opinionated

Makes decisive calls about companies and technologies

#### Unbiased

Obtains objective/independent information and delivers impartial analysis

#### Confidential

Allows clients to secure information about innovators without revealing their identities

#### Cost-effective

Costs far less than expensive consultants or a resource-intensive internal team

# Autonomous Systems 2.0 Intelligence

## Research Membership Access

Lux Research members get on-demand access to Lux’s analysts, publications, and data across a set of emerging technology domains customized to their needs. Analysts with deep expertise in each domain provide ongoing market intelligence and technology scouting to help executives find new business opportunities and make better decisions.

## Membership Benefits

### Executive Sessions

Lux Research analysts regularly structure and deliver Executive Sessions – typically half-day to full-day onsite interactive meetings, which are a combination of Lux Research presentations and working sessions – that allow clients to tap more deeply into Lux data, methodologies, and insight.

### Member Site

Lux Research’s ongoing series of Company Profiles, Journals, and Market Reports provide a wealth of information. To access these publications and quickly find the information you need, clients can use Lux Research’s Member Site.

### Market Analysis

Lux Research analysts’ deep understanding of the underlying technologies makes them uniquely qualified to provide insightful market analysis of emerging technology areas. Drawing on extensive primary research for technical and market insight, Lux Research helps clients understand market opportunities through:

- Market Reports
- Analyst Insights
- Data Trackers

### Company Profiles

The core of Lux Research’s Intelligence services are our ongoing briefings – analysts select 50 to 125 leading innovators in each emerging technology field and publish primary-research-driven, opinionated, quantitative profiles of these players. These profiles are delivered to clients in email and available online through the Member Site.

### Analyst Inquiries

In addition to accessing Lux Research’s written research in the form of Company Profiles, Journals, and Market Reports, clients can also contact Lux Research analysts, who will quickly answer custom questions based on their ongoing research into emerging technology areas.

## Visualization Tools

### Lux Innovation Grids

Lux Research collects information and provides analysis on top innovators in emerging technology areas through company briefings. The Lux Innovation Grid uses data and insights from these profiles to compare companies.



### Spider Charts

Lux Research uses spider charts to show a technology provider’s scorecard, rating the company on 10 critical success factors, and compares it to other companies in the market in which they participate and the broader area of companies in their technology space.



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