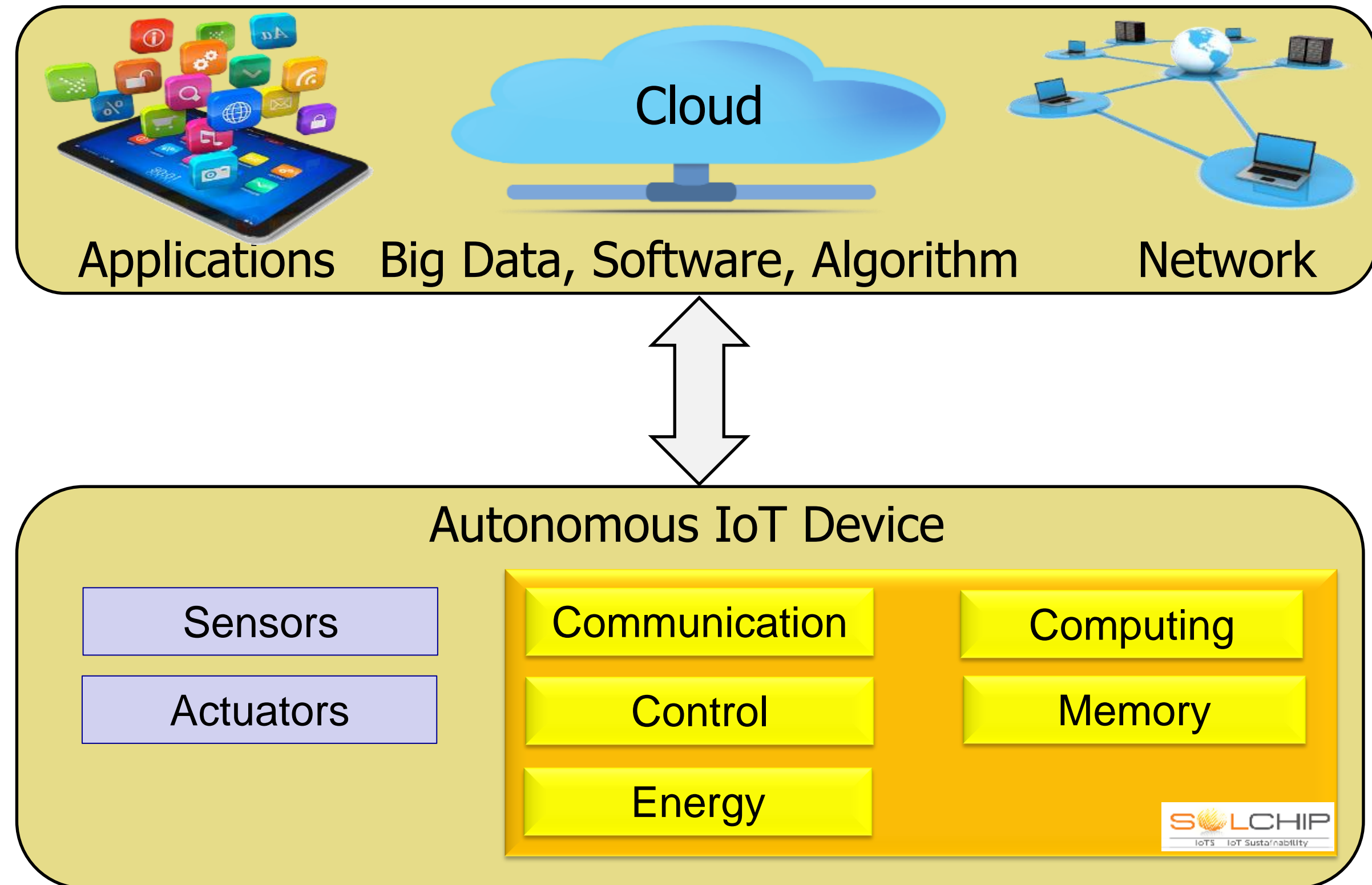


Sol Chip Platforms Power and Connect Autonomous IoT Devices

- ▶ 95% of IoT data is gathered from sensors
- ▶ Cost-effective autonomous IoT devices are the key to massive deployment of devices that will enable myriad of applications
- ▶ Sol Chip Platform provides
 - ▶ Everlasting energy
 - ▶ Wireless communication
 - ▶ Sensors+actuators control



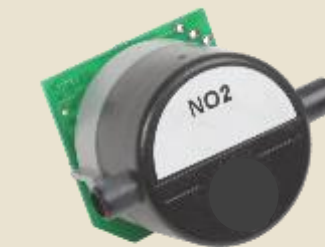
Target Market:

- Autonomous IoT devices
 - Autonomous: self-powered, wireless, minimal maintenance
 - Best for: remote sensors and actuators, outdoor and indoor
- IoT Segments
 - Precision agriculture
 - Smart city
- Differentiation: Sol Chip's platforms are
 - Smaller
 - Cost effective
 - Zero maintenance for 10 years

Precision Agriculture



Smart City Applications



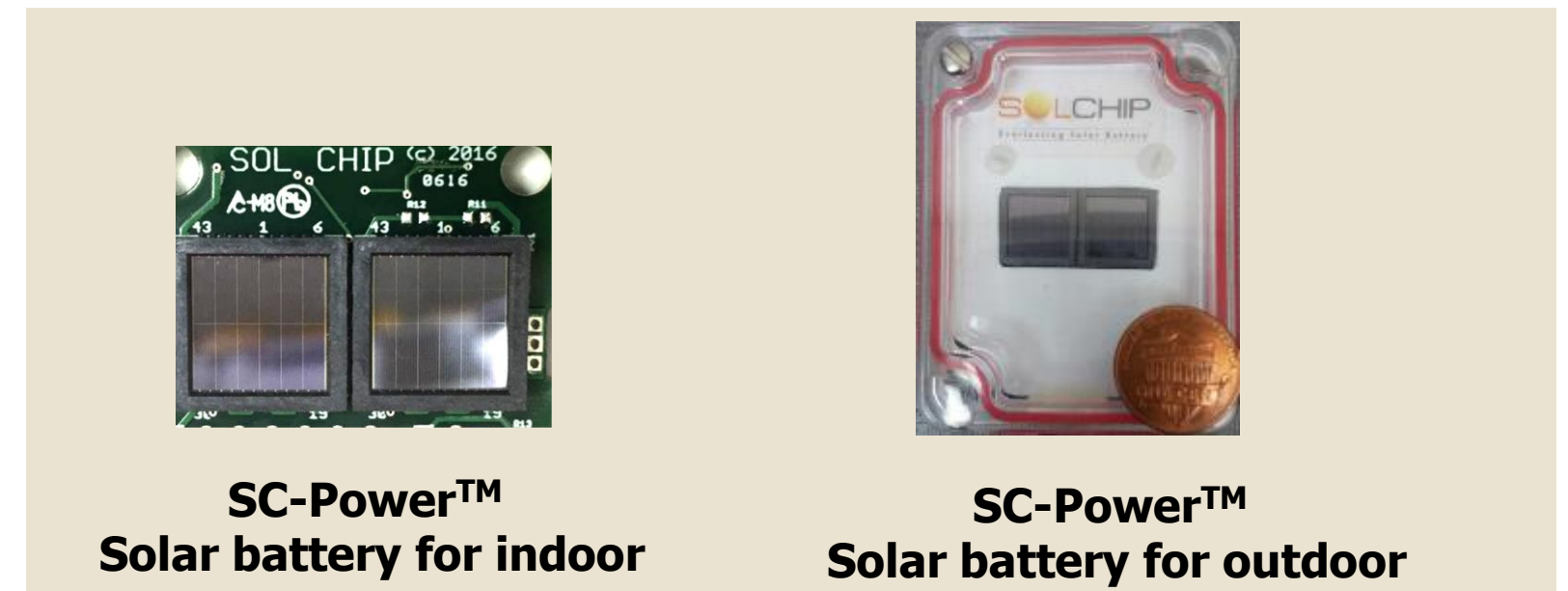
Sol Chip's IoT LightBattery™ Based Platforms:

- ▶ LightBattery™ – Sol Chip's innovative and patented energy harvesting technology
 - ▶ The LightBattery™ integrate photovoltaic (Solar) cells into a standard chip package that can be mounted on a Printed Circuit Board (PCB)
 - ▶ Unique Power Management circuitry maximizes energy harvesting for all-weather operation



SC-Comm™

Continuous Power, Sensing and
Communication Platform



SC-Power™

Continuous Power Platform

Precision Agriculture Segment:

Wireless Sensors and Valves

- **The opportunity:** install wireless sensors and valves to enable optimization of water consumption and crops yield
- **SC-Comm:** Miniature, cost-effective, maintenance free wireless Solar Tag – with sensor and actuator control
- **Used in:** Open fields, greenhouses, orchards, etc.
- **Commercial availability:** Wireless sensors – today; Wireless valves with bidirectional radio – samples Q117, commercial Q317
- **Commercialization status:**
 - Successful pilots completed in Q216, now ramping up sales: Israel, LATAM, US, Asia, Europe
 - *Started pilot Q416 in China*



Sol Chip Solar Tag Deployment Examples

Geographies: Spain, Israel, Argentina, Singapore , China
Sensors: Soil moisture, air temperature, light radiation

Greenhouse



Vineyard



Community Garden



Open Field



Smart City Segment:

Smart Waste Management

- **The Opportunity:** install wireless waste bin volume sensors to optimize collection truck's routes and save up to 40% OPEX
- **SC-Power:** Miniature, cost-effective, maintenance free wireless Solar Battery powers the sensor and GPRS modem that connects the sensor to the cloud
- **Commercialization Status:**
 - Validated by field tests (Israel, Europe)
 - Huge interest: China, Singapore, Japan



Additional Smart City and Smart Grid Projects:

➤ Smart Parking

- SCP powers the parking sensor
- **Commercialization status : Pilot in progress in Israel**

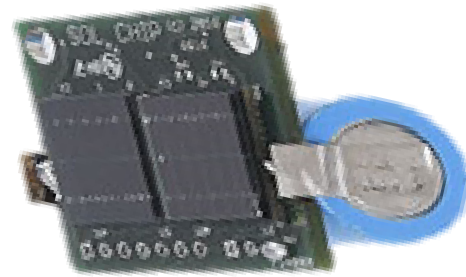


➤ Groundwater Level Measurement

- SCP powers the sensor and 3G modem
- **Commercialization status : Developed a proof of concept with a Chinese company**



Why Sol Chip's SC-Power?



Sol Chip's SCP-2800



Energizer L91 1.5V 3.5Ah \$2

Parameter	SC-Power	Primary batteries
Overall Efficiency	55 Ah/10years	3.5 Ah
Cost	\$0.27 / Ah**	\$1.2 / Ah**
Size	0.18 cc/Ah*	6.5 cc / Ah***
Maintenance	More than 10 years	when battery is depleted****

** SCP-2800 cost used: \$15 (applicable for qty's of 100k/yr)

*** 2 x 1.5 volts batteries are needed to compare at voltage level of 3 volts

**** Primary batteries' depletion is due to usage and leakage

Why Sol Chip's SC-Comm? (Precision Agriculture Applications)



Sol Chip's
Wireless Solar Tags



Lead competitor #1



Lead competitor #2

Parameter	SC-Comm	Competition
Cost	< \$100	\$200 – \$500
Size	400cc (13x8x4cm)	2,000cc and higher
Maintenance	More than 10 years	2 – 5 years

Sol Chip's Accomplishments

EE|Times

**Nominated as One
of "60 Hot Startups
To Watch"**

Last 4 years

iNNOVEX2015

*** Award winner
of the "Most
innovative Israeli
startup of 2015"**



The Chief Scientist
Office Israel

**"Outstanding
Incubator Company
award - 2012"**

IDTechEx

**Award winner of the
"Best Technical
Development of
Energy Harvesting
2013"**

WE Summit™

**Winner of
US-Israel Women
Entrepreneurship
award**



**Invited speakers in
international conf.
on Solar EH and
latest innovations**

FASTCOMPANY

**Named one of the
"Most Innovative
Companies 2016"
under Energy
segment**

* Sol Chip was selected out of 800 Israeli startups that applied to the competition

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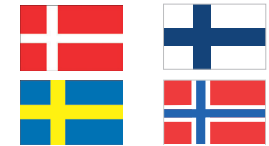
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