

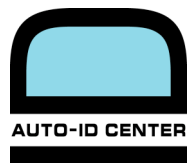
MIT.CAMBRIDGE.ADELAIDE.KEIO.FUDAN.USG

AUTO-ID CENTER - VISION & TECHNOLOGY

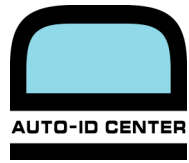
Kevin Ashton, Executive Director, Auto-ID Center

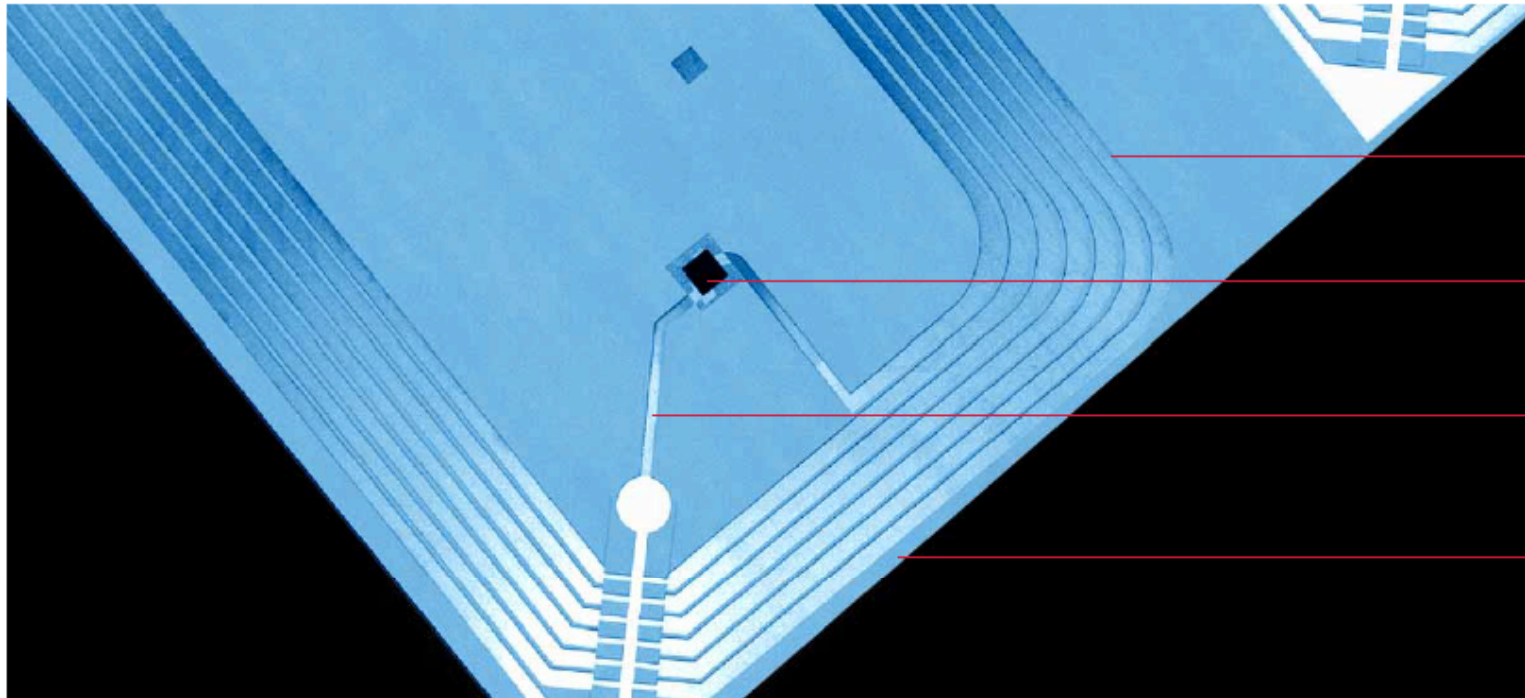
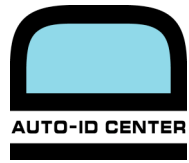
Prof. Sanjay Sarma, Research Director, Auto-ID Center

Tokyo, January 22, 2003



- Founded 1999
- Research Labs at
 - Massachusetts Institute of Technology, USA
 - University of Cambridge, UK
 - University of Adelaide, Australia
 - Keio University, Japan
 - Fudan University, China
 - USG / ETH, Switzerland



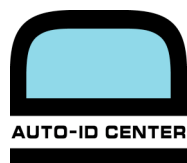


Antenna

IC

Connection between
IC and Antenna

Substrate on which
the antenna resides



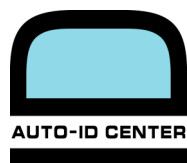
JAPAN-BASED SPONSORS

END USERS

Canon
Dai Nippon Printing
Mitsui & Co.
Toppan Printing

TECHNOLOGY VENDORS

NTT
NTT Comware
Toppan Forms
Toray International
Sun Microsystems KK



ALL SPONSORS

END USERS (39)

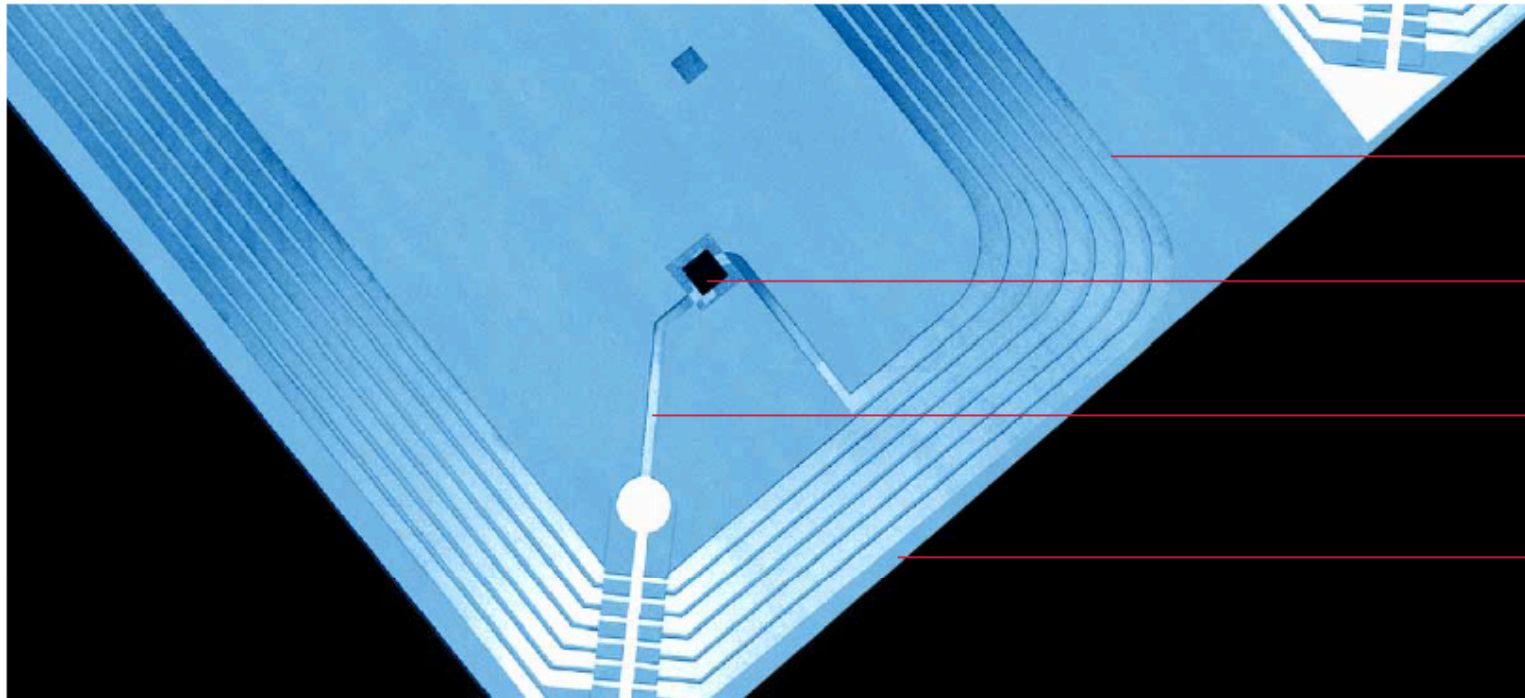
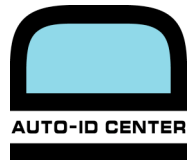
Abbot Laboratories
Ahold
Best Buy
CHEP
Canon
Coca-Cola
CVS
Dai Nippon Printing
Department of Defense
EAN International
Eastman Kodak
Home Depot
International Paper
Johnson & Johnson
Kellogg's
Kimberly-Clark
Kraft
Lowe's
Mead Westvaco
Metro
Mitsui & Co.
Nestle Purina
Pepsi
Pfizer
Philip Morris US

Procter & Gamble
Sara Lee
Target
Tesco Stores Ltd
The Gillette Company
Toppan Printing
Uniform Code Council
Unilever
United States Postal Service
UPS
Visy Industries
Wal-Mart Stores, Inc.
Wegman's
Yuen Foong Yu Paper Mfg. Co.

TECHNOLOGY VENDORS (49)

Accenture
ACNielsen
ADT / Sensormatic
Alien Technology
AWID
Avery Dennison
British Telecom
Catalina
Checkpoint Systems, Inc.
Composite Materials plc
Connecterra
Display Edge
Ember Corporation
Flexchip AG
Flint Ink
GEA
GlobeRanger
IBM
ID Tech Ex
Information Resources, Inc.
Intel
Intermec
Invensys
KSW
Manhattan Associates

Matrics
Markem Corp.
Morningside Technologies
NCR Corporation
Nippon Telephone & Telegraph
NTT Comware
OATSystems
Philips Semiconductors
Rafsec
RF SAW Components
SAMSYS
SAP
Savi Technology
Sensitech
Siemens Dematic Corp.
STMicro
Sun Microsystems
Symbol Technologies
TAGSYS
ThingMagic
Toppan Forms
Toray International, Inc.
Vizional
Zebra Technologies Corporation

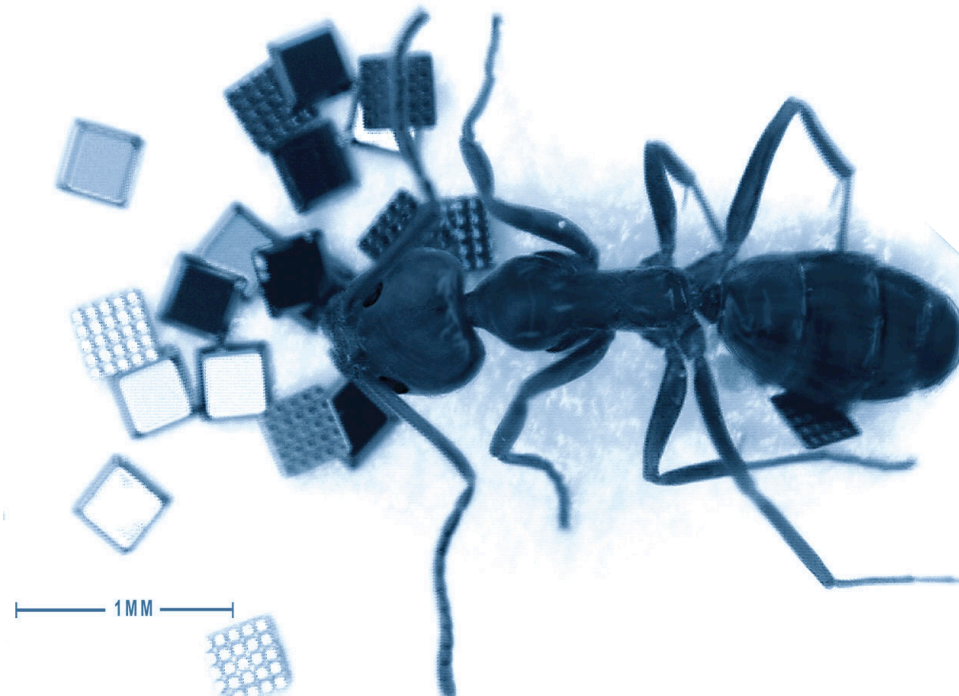
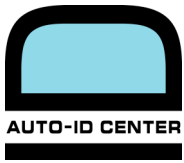


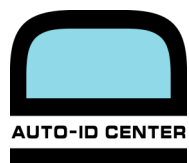
Antenna

IC

Connection between
IC and Antenna

Substrate on which
the antenna resides





ELECTRONIC PRODUCT CODE

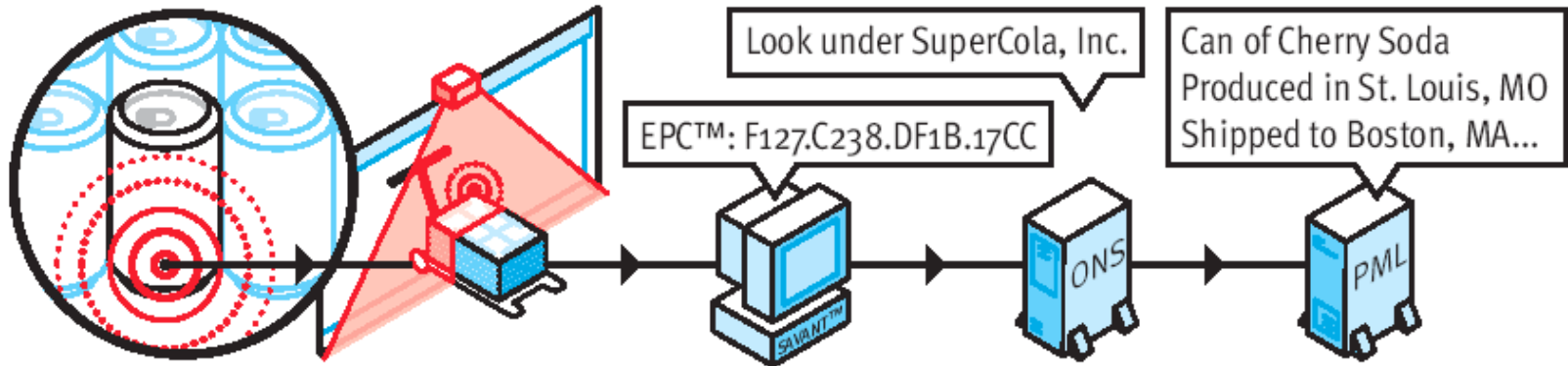
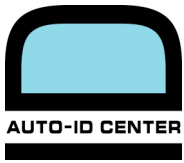
01 . 0000A89 . 00016F . 000169DC0

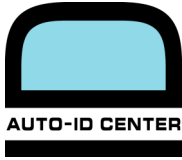
Header
0-7 bits

EPC Manager
8-35 bits

Object Class
36-59 bits

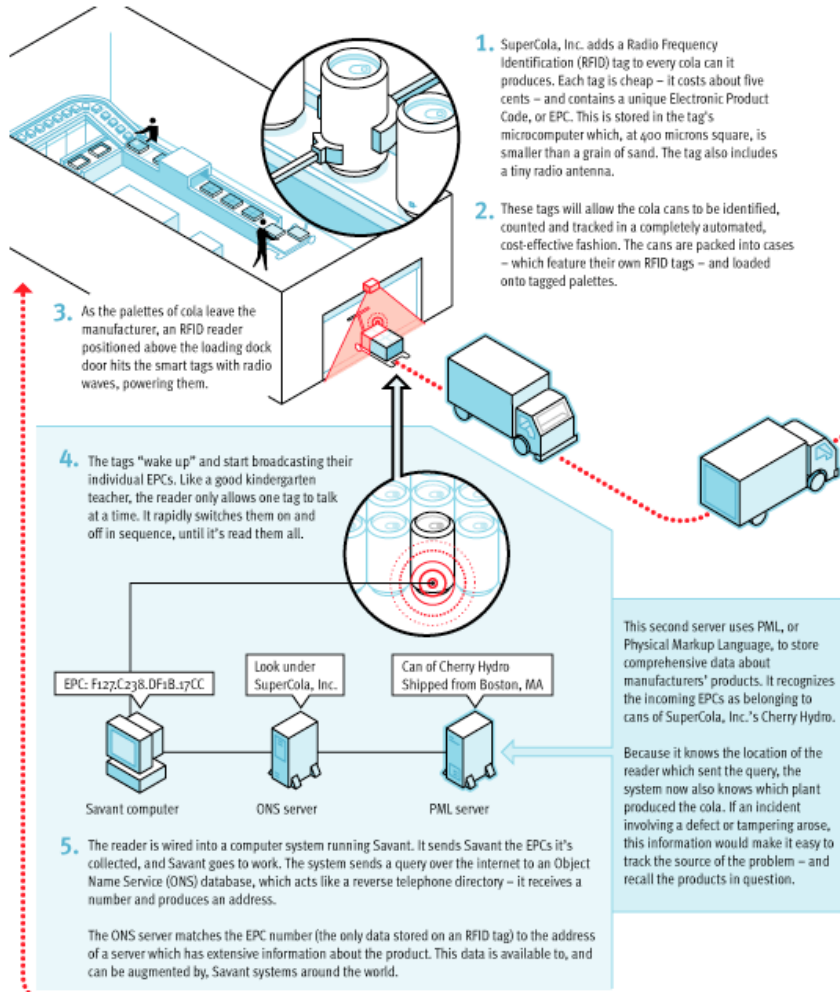
Serial Number
60-95 bits





HOW THE AUTO-ID SYSTEM WILL AUTOMATE THE SUPPLY CHAIN

With Auto-ID technology, physical objects will have embedded intelligence that will allow them to communicate with each other and with businesses and consumers. Auto-ID technology offers an automated, numeric system of smart objects that revolutionizes the way we manufacture, sell, and buy products. Here's how it works:



XPLANATIONSSM by XPLANESM