THE OPEN IOT

IMAD SOUSOU

Vice President and General Manager
Intel Open Source Technology Center

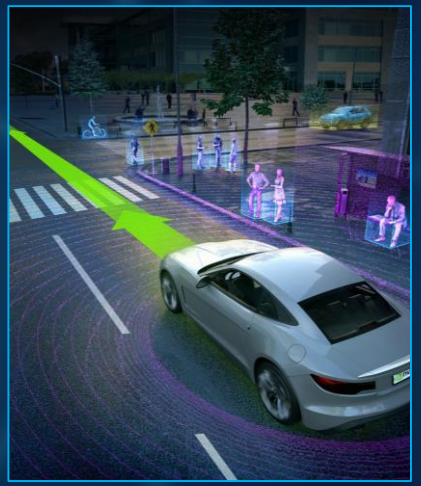
BILLIONS OF CONNECTED DEVICES & SENSORS

2020 – 1.5 GB OF TRAFFIC PER DAY/PERSON

CONNECTED PLANE
40,000 GB/DAY

SMART HOSPITAL
3,000 GB/DAY

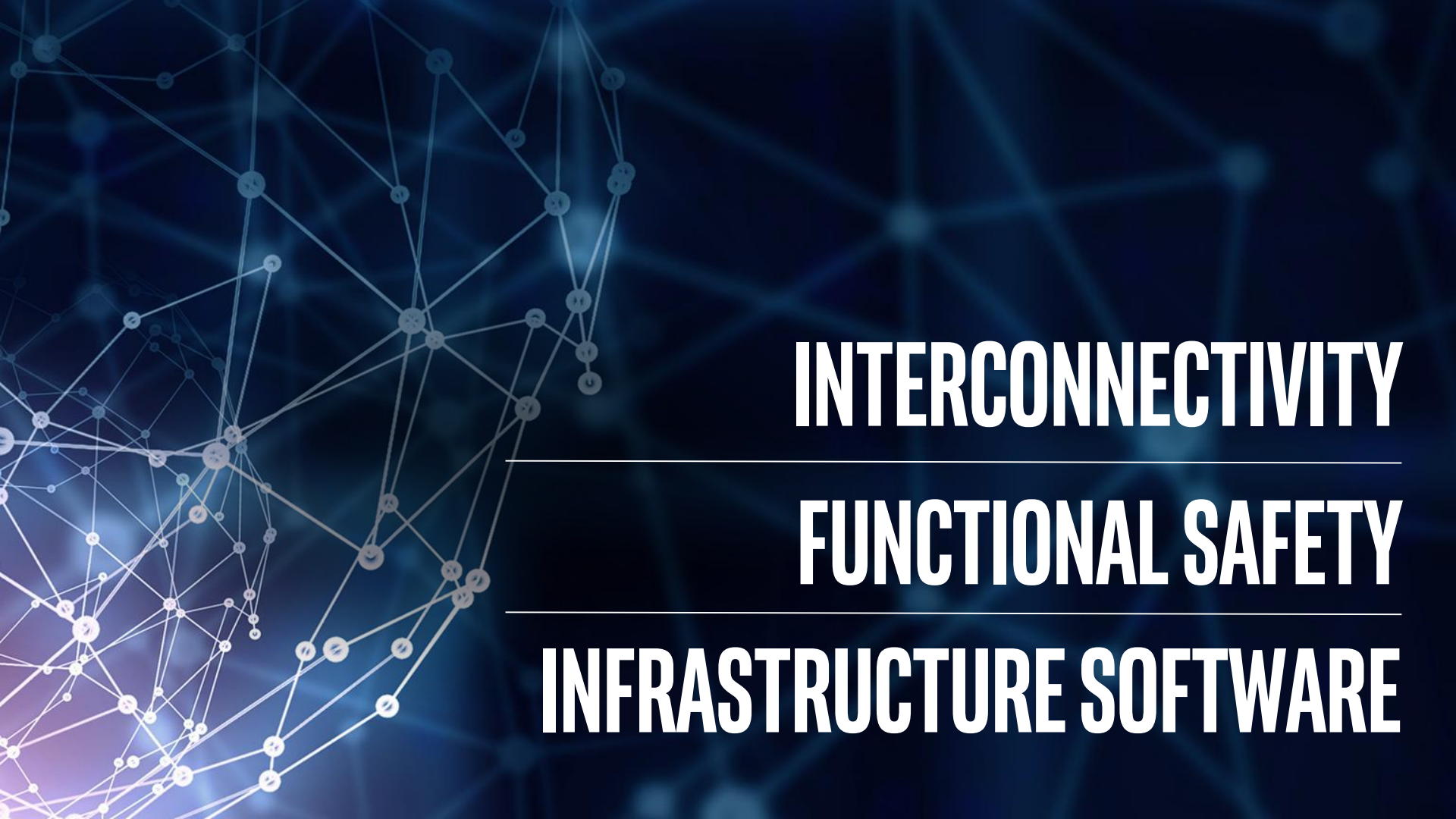
CONNECTED FACTORY
1 MILLION GB/DAY



SELF-DRIVING CARS
4,000 GB/DAY

OPEN SOURCE

FOUNDATION TO THE DEVELOPMENT OF DEVICES


INTERCONNECTIVITY
FUNCTIONAL SAFETY
INFRASTRUCTURE SOFTWARE

OPEN
CONNECTIVITY
FOUNDATION

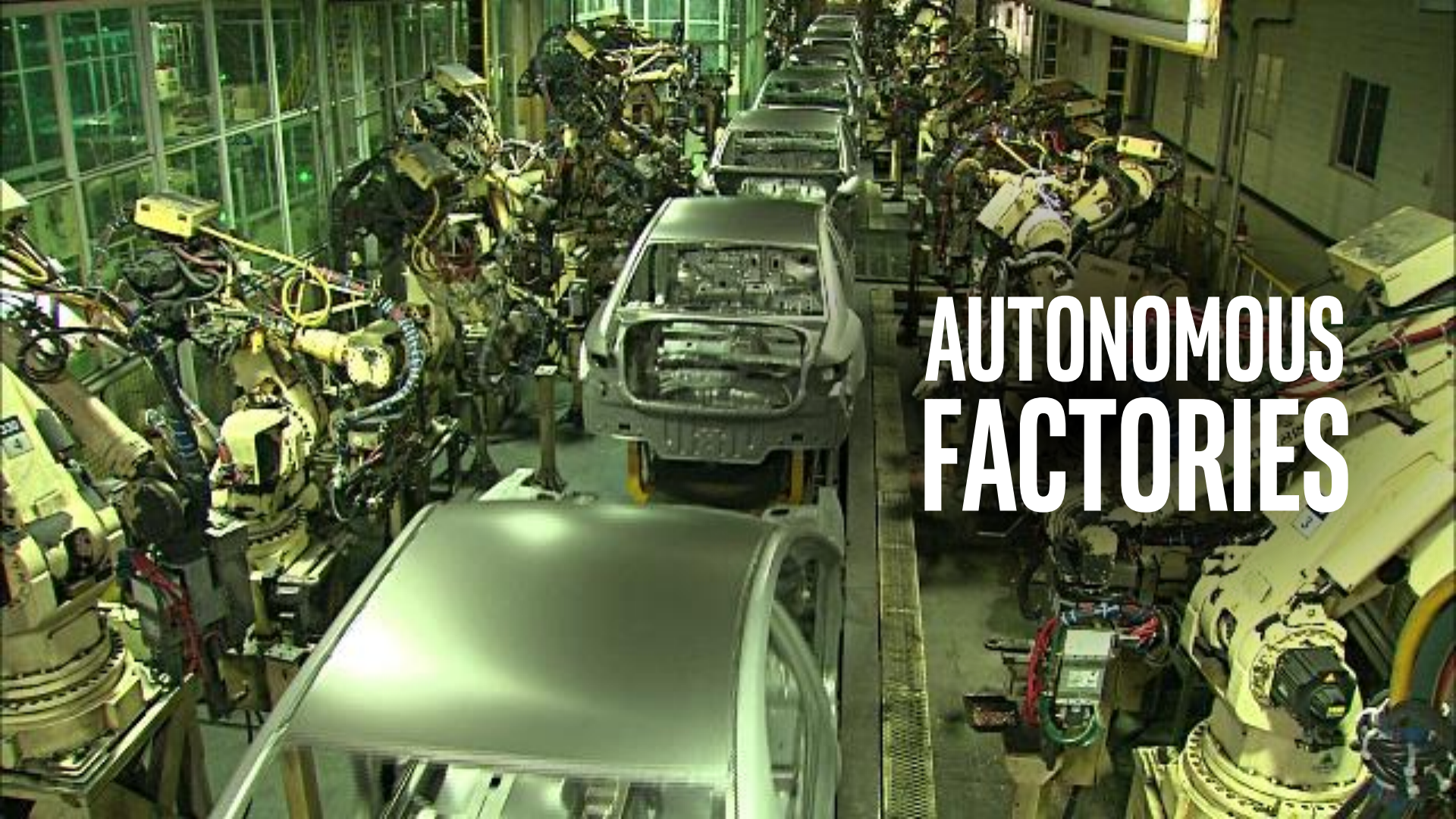
STANDARD AND CERTIFICATION
+
OPEN SOURCE PROJECT

INTERCONNECTIVITY
MORE WORK TO DO

INTEROPERABILITY
&
SECURITY

FUNCTIONAL SAFETY

AUTONOMOUS MACHINES


AUTONOMOUS
FACTORIES

AUTONOMOUS ROBOTS

AUTONOMOUS DRONES

AUTONOMOUS AND FUNCTIONAL SAFETY CHALLENGES

Modern multi-processor systems and a modern operating system required

AUTONOMOUS AND FUNCTIONAL SAFETY SOLUTION

SAFETY CRITICAL LINUX

Extends beyond static, proprietary RTOS

Modernize safety-standard certification process to accommodate large pre-existing re-usable software components

Scalability by open source and Linux

OPEN-SOURCE
OPEN
SOFTWARE
SOURCE
FREE
ACCESS
DEVELOPMENT
CULTURE
COPYRIGHT
MEDIA
RESEARCH
INTERNET
CONTENT
SCIENTIFIC
SYSTEMS
TERM
SHARING
AVAILABLE
INFORMATION
USERS
COST
PUBLIC
DIGITAL
CODE
COMMUNITY
SYSTEM
NEW PRODUCTION
TECHNOLOGY
CULTURAL
MOVEMENT
USE
EXAMPLE
PLATFORM
ETHICS
WORLD
COMMONS
PRODUCTS
CREATIVE
COMPUTER
PROJECTS
PROCESS
MANY
MESSAGEBOARDS
CITATION
PROJECT
INTELLECTUAL
TECHNOLOGIES
INCLUDING
COMMUNITIES
RESOURCES
SIMILAR
FILM
KNOWN
MAIN
FIRST
GROUP
BEER
SOCIETY
OPERATING
ONLINE
COMPANIES
DESCRIBE
PRODUCT
DESIGN
MADE
BUSINESS
POLITICAL
ORIGINAL
INDIVIDUALS
ANOTHER
MANUFACTURERS
USING
HARDWARE
IDEA
OTHERS
BECAME
LINUX
COSTS
SHARED
DATA
PROPERTY
CONCEPT
WEB
WORK
ONE
MOVIE
BBS
ARTICLE
WORKS
BLOGS
GENERAL
ORGANIZED
VIRTUAL
ANYONE
WITHOUT
MODEL
LIMITED
PUBLISHED
MAKING
RAYMOND
CASE
DISTRIBUTED
SCIENCE
PROGRAMMING
LICENSE
INITIATIVE
SOCIAL
NEEDED
FILE
EXAMPLES
LICENSES
CENTURY
POTENTIAL
ARGUE
WELL
EVEN
INNOVATION
CREATED

ZEPHYR PROJECT

Zephyr™

GrusH

Smart Gaming Toothbrush

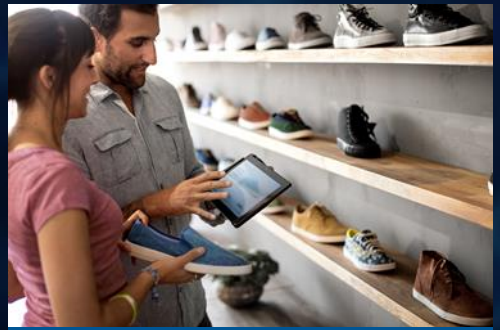
Neonatal Baby Monitor

Neopenda

yocto · PROJECT

SOFTWARE DEFINED COCKPIT

INTERNET OF THINGS



RETAIL

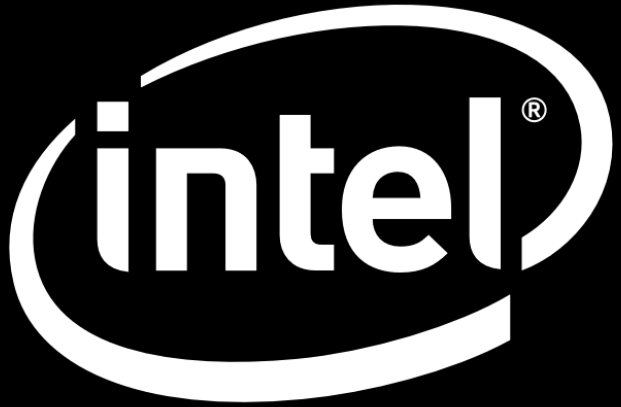
COMMS

INDUSTRIAL

Dronecode

Intel® Aero Ready to Fly Drone

Intel Aero compute board is the brains inside this open source, feature rich, and fully-assembled, ready to fly quadcopter.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