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
MORE WORK TO DO
INTEROPERABILITY
& SECURITY
FUNCTIONAL SAFETY

AUTONOMOUS MACHINES
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
ZEPHYR PROJECT

Smart Gaming Toothbrush

Neonatal Baby Monitor

Grush

Neopenda
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.