



The fastest IoT business enabler

MICROEJ FOR



Kinetis
Microcontrollers



Vybrid
Controller
Solutions

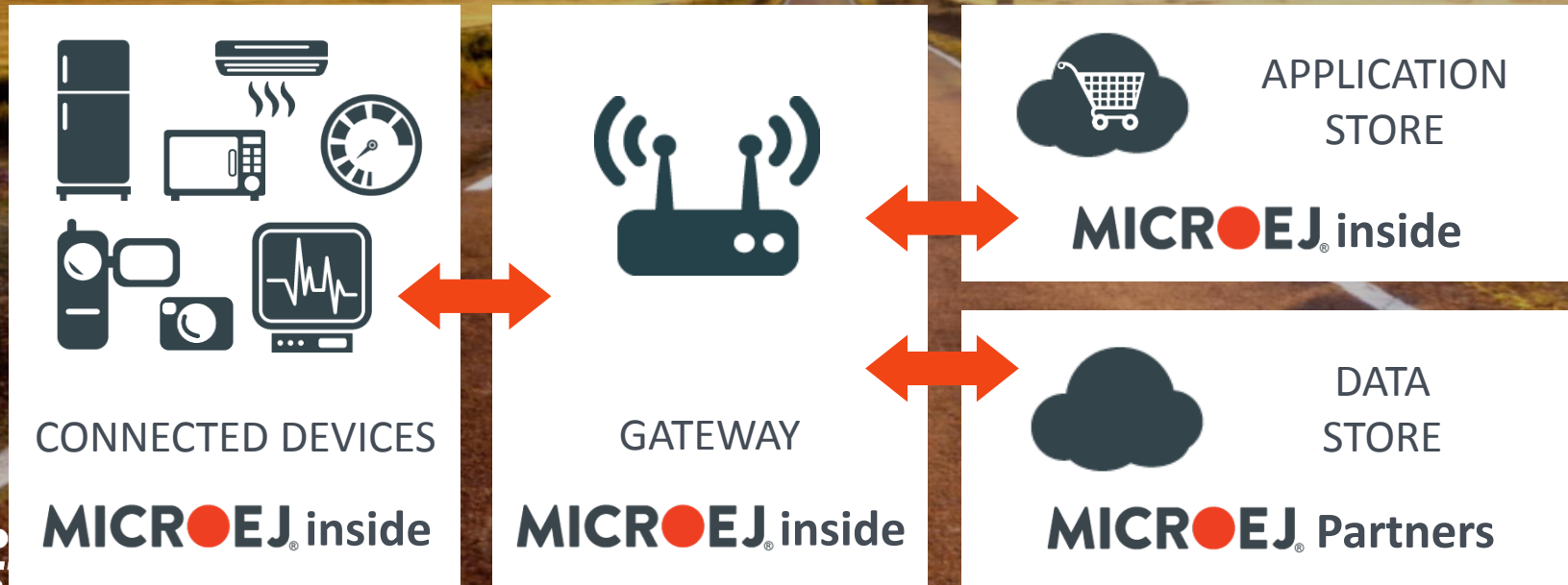


i.MX
Applications
Processors

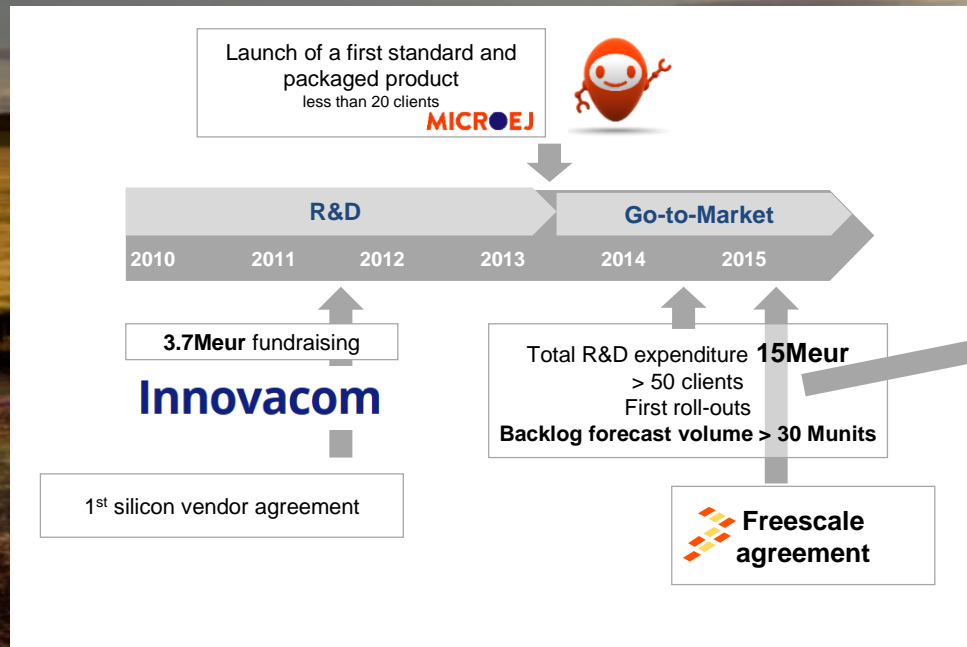


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MICROEJ Software Platform



A bit of History



FOR NEW IOT DEVICES & SERVICES



CONSUMER
ELECTRONICS



WEARABLES



INDUSTRIAL
AUTOMATION



HEALTHCARE



AUTOMOTIVE

A TYPICAL USE CASE - WEARABLE ELECTRONICS

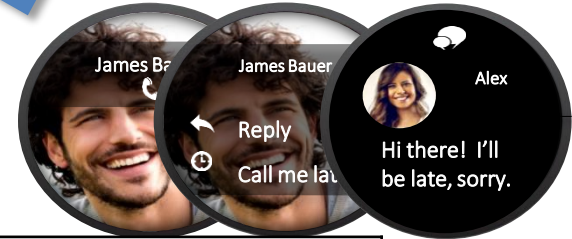
63% off on Bill of Material
87% power consumption savings



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android wear



Power
Processor
RAM (data)
FLASH (Code + Resources)
Boot Time

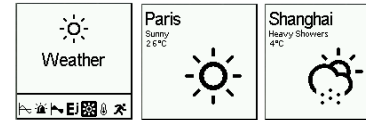
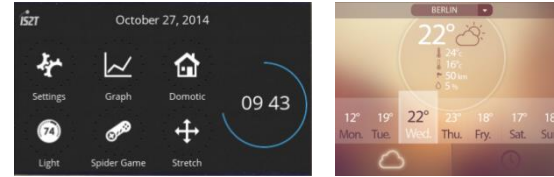
RTOS (Linux) + Java	
	410 mAh – batteries rechargeable every day
	Qualcomm Snapdragon 400 MSM8226, ARM 7-based Quadcore 1.2 GHz
	256 MB
	2 GB
	35 s

RTOS (Any) + Java	
	Batteries rechargeable every week
	ARM Cortex-M4 based MCU, 120 MHz
	Less than 0.5 MB
	2 MB
	50 ms

GUI – MICROEJ EMBEDDED UI

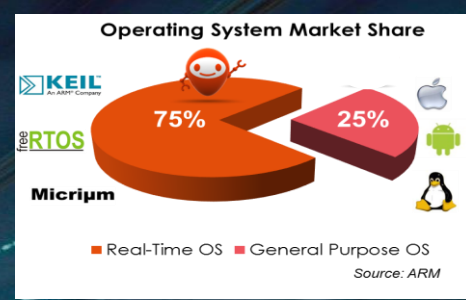
- Example – Area Chart
 - Kinetis K70 (M4)
 - 32-bit col. WQVGA, touch
 - 50 frames/s,
 - 2ms boot-time
- Memory requirements

	FLASH	RAM
	161 KB	11 KB
MicroEJ processor	28 KB	1 KB
MicroEJ GUI Platform	114 KB	5 KB
Area chart application	19 KB	5 KB



- GUI Libraries
 - Front panel designer
 - Widget examples
 - Fonts
 - Transitions, etc.

FOR ALL PRODUCTS





SCALABILITY



SECURITY



**REMOTE
MANAGEMENT**



**ADD OF NEW
SERVICES**



**CODE
REUSE**



**LOW POWER
CONSUMPTION**



CONTROL OVER BOM

- ✓ One platform for a wide range of HW and RTOS
- ✓ No oversized hardware



-50% SHORTER TIME-TO-MARKET

- ✓ Simulation
- ✓ Fast prototyping
- ✓ Reduced QA cycles



INCREASED MARKET REACH

- ✓ Add of new services to device
- ✓ Enhanced User Experience
- ✓ Extended product lifecycle

A person is sitting at a desk, interacting with a tablet. To their right is a laptop with a smartphone on top of it. The scene is lit by natural light from a window in the background. A semi-transparent dark grey banner is overlaid on the image, containing white text.

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LEVERAGES A

POWERFUL AND

COMPREHENSIVE ECOSYSTEM

CUSTOMER APPLICATIONS (C / JAVA / ASM)

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C/C++
PLUG

SMART RAM
OPTIMIZER

FILE
SYSTEM

USER
INTERFACE

VOCAL
CONTROL

NUMERICAL

STORE
ACCESS
BROWSER

VIRTUAL
ENGINE

EMBEDDED
DEVICE API

RTOS

ETHERNET

USB / ...

WIRELESS

WI-FI

BLUETOOTH

SUB GIGA

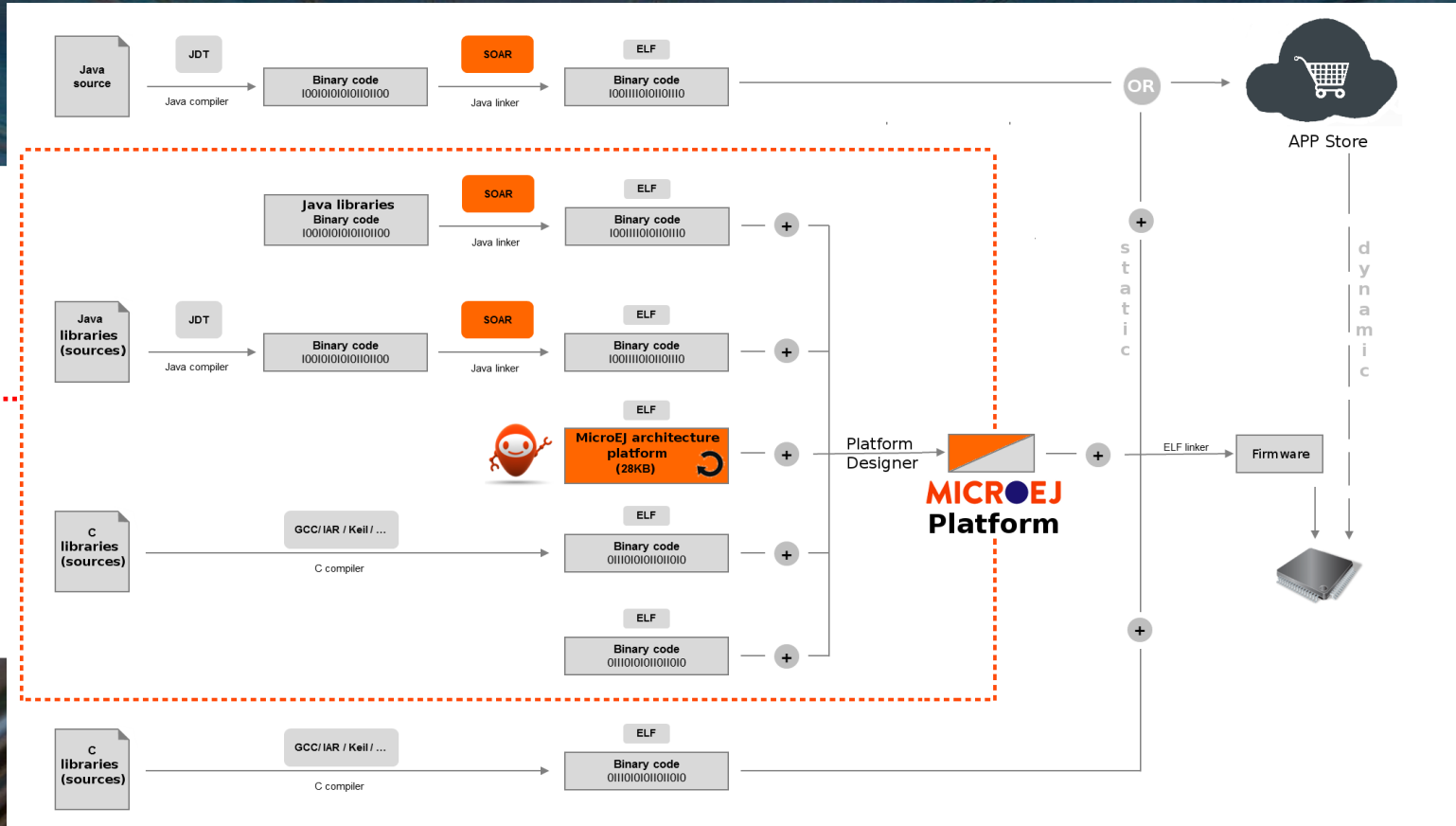
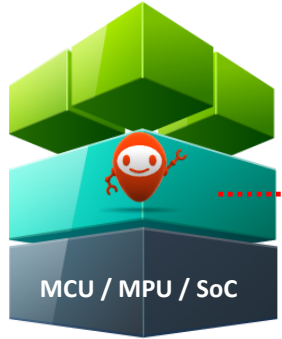
LOW LEVEL DRIVERS (BSP)

MCU / MPU / SoC

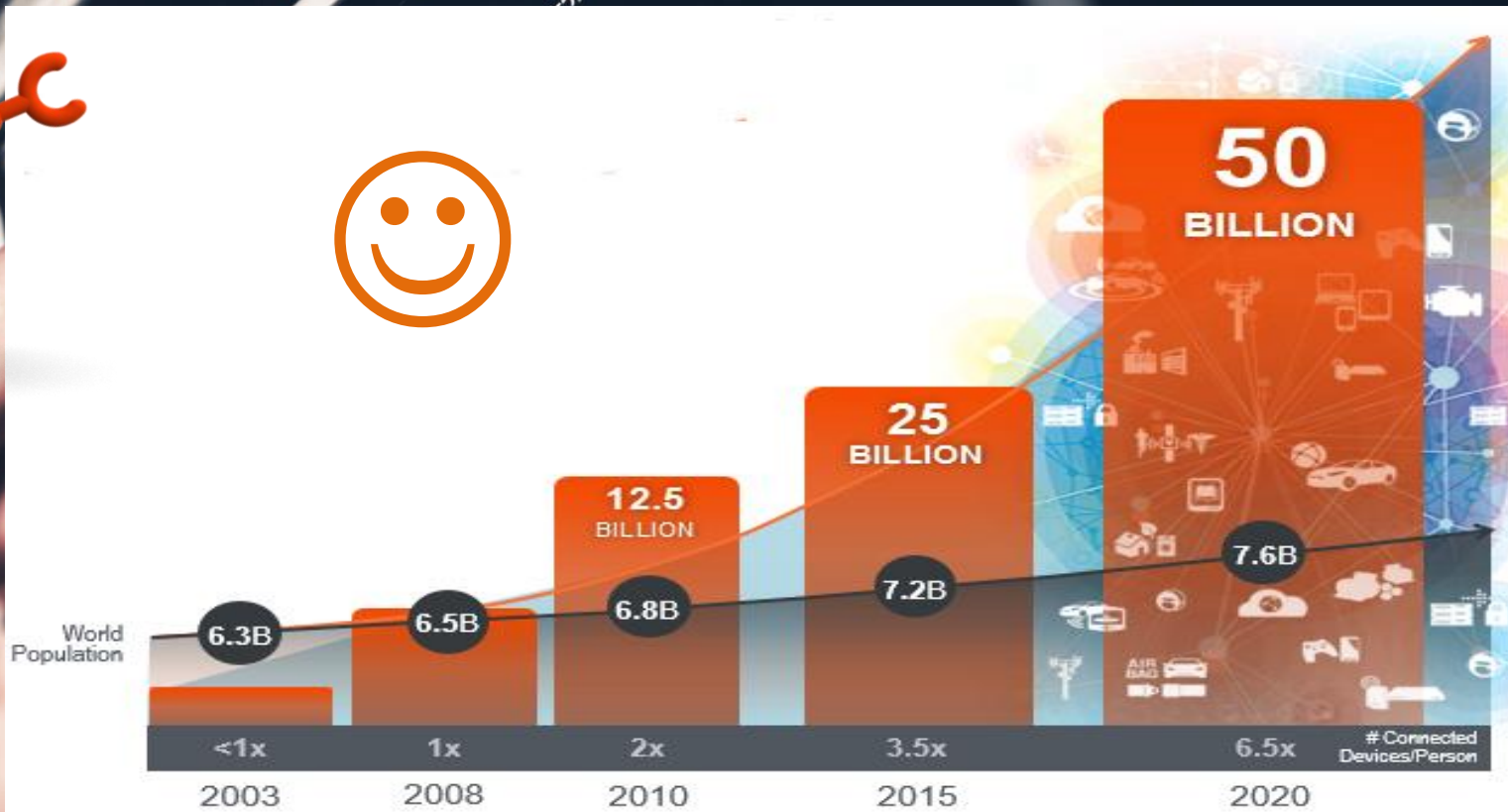
STANDARD LIBRARIES FOOTPRINT

	Min	Typical	Max
» Core	14.9K	40.0K	140.7K
» Log	1.5K	1.5K	2.5K
» CJ-PLUG	2.0K	2.5K	4.5K
» ECOM	4.5K	10.5K	23.1K
» Wadapps	3.3K	17.1K	24.3K
» UI	12.1K	50.0K	181.3K
» MQTT	41.2K	42.3K	49.2K
» Eclasspath	0.0K	35.0K	97.3K
» NET*	20.1K	20.1K	25.1K

STANDARD GENERATION FLOW



WHY MICROEJ ?



DETECTING SWEET BUSINESS SPOTS

If you want to significantly increase productivity...

If you have “brand issue” across several products line ...

If you want “Android” but cannot afford the B.O.M ...

If you want a software components/Apps store ...

If you want to create an safe and reliable (open or close) ecosystem...

If you want to simulate first your next device functionalities...

If you have several IoT protocols/comm to address...

If you yours marketing and R&D teams fight ...

If you need an integrated software platform that includes User Interface, Numeric, Sensor, Low Power, Smart RAM optimizer, ...



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