

ENABLING IOT INNOVATION ON THE WEB

*DESIGNING THE PATH FORWARD FOR
GECKO ON DEVELOPER BOARDS.*

WHY ARE WE DOING THIS AT ALL?

TO USE THE FEATURES OF THE WEB

TO MAKE IT EASY FOR PEOPLE

TO EXPERIMENT WITH IOT.

THOSE FEATURES?

EASY TO DEVELOP, DEPLOY AND SHARE.

A NOTE ON CONNECTED DEVICES....

*THE CONNECTED DEVICES ORG IS
EXPERIMENTING WITH BUILDING **PRODUCTS**.*

***WE'RE BUILDING TOOLS TO ENABLE
EXPERIMENTATION.***

*WE ARE **ENABLING EXPERIMENTATION** AND
INNOVATION THROUGH THE WEB PLATFORM.*

RASPBERRY PI ANDROID CHALLENGES

NOT MATURE ENOUGH.

NO STABLE GFX.

GONK/B2G IS DEAD.

AND WEB APIS STILL AHEAD...

B2G CHALLENGES

BUILDING DOM APIS IS A NIGHTMARE.

HARDWARE ACCESS USE-CASES ARE INFINITE.

DEVELOPER BOARDS OPTIONS KEEP GROWING.

GAIA IS INCREDIBLY COMPLEX.

ALSO: B2G/GONK IS DEAD.

SO WHAT DO WE WANT?

*A WAY TO DO IOT PROGRAMMING
USING WEB TECHNOLOGIES
THAT WORKS ON MULTIPLE DEV BOARDS
ACCESSIBLE FROM DESKTOP AND MOBILE
WITH ACCESS TO MANY PERIPHERALS
AND FUTURE PROOF FROM UPDATE HELL.*

SUNSET B2G (SMARTPHONE)

STILL B2G/GONK BASED.

STILL TOO MANY WEB APIS.

STILL TOO COMPLEX.

THINGS IT GETS RIGHT:

CLOSER TO STOCK FIREFOX

NEW APIS OVER LOCAL WEB SERVICES

PROPOSAL.

*FIREFOX-BOOTSTRAPPED WEB APP
AS DEFAULT UI ON RASPBIAN
USING LOCAL WEB SERVICES (NODE.JS)
THAT USE EXISTING LIBRARIES (J5)
TO TALK TO HARDWARE.*

ADVANTAGES.

FULLY SUPPORTED OS.

A MORE SUPPORTED FIREFOX.

NO ANDROID DEPENDENCY.

HUGE COMMUNITY OF DEVELOPERS.

A FOUNDATION FOR FUTURE (SERVO).

SIMPLER

CHALLENGES.

TWEAK AND DISTRIBUTE RASPBIAN.

FIREFOX/SERVO ON RASPBIAN.

PROVISIONING NEW NODE SERVICES.

NEW DEVELOPER WORKFLOW.

APP SHARING.