

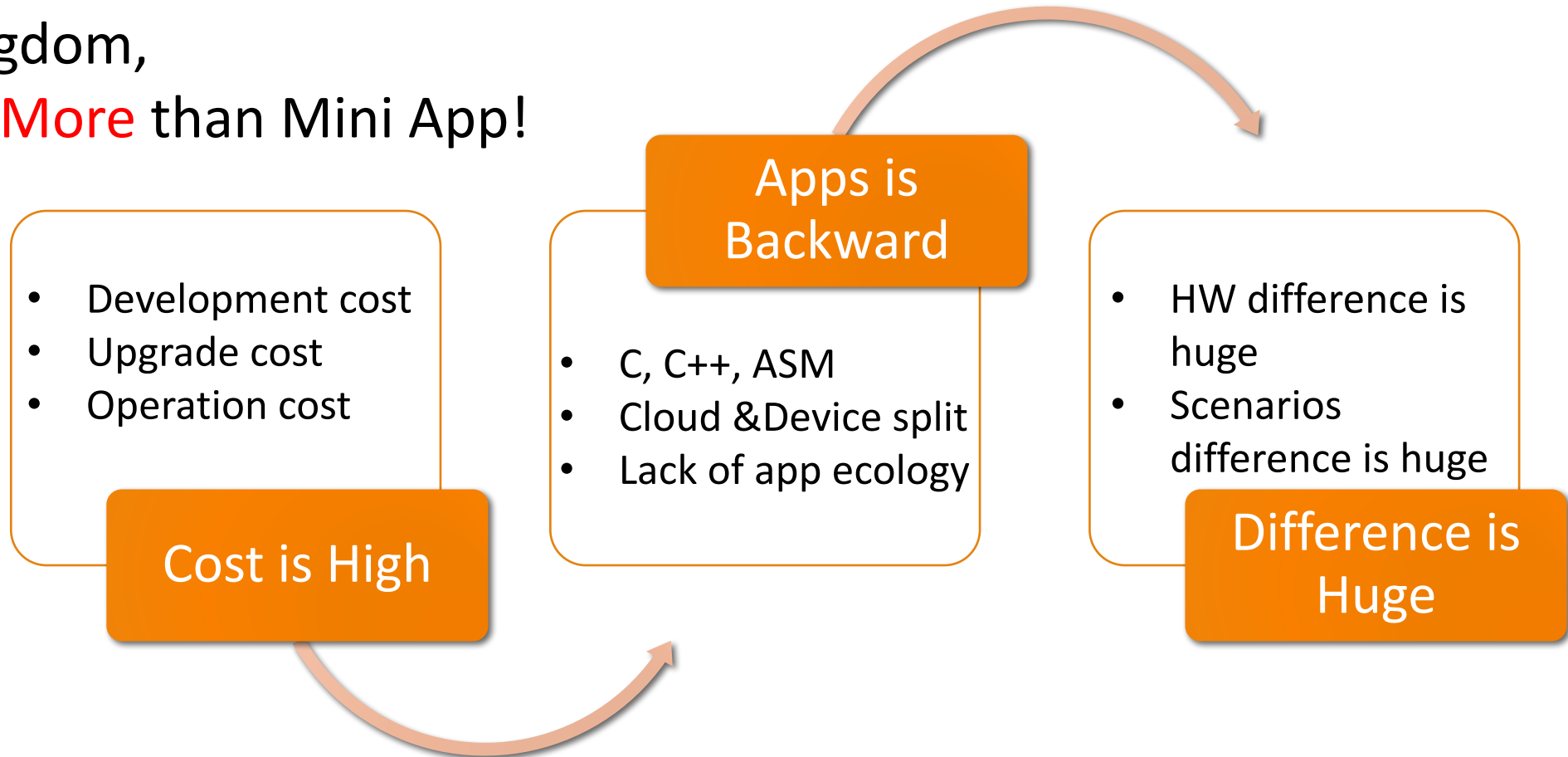
# Ideas for IoT Mini App Standardization

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# Background

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In **IoT** kingdom,  
We need **More** than Mini App!



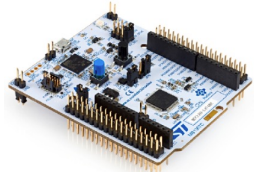
# What is IoT Mini App

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- Reuse Most of Mini App Standardization
- Extend special component and JSAPI for IoT
- Cut unnecessary JSAPI on IoT Mini App
- Support Local render mode & web render mode
- Not depends on Native APP

# Typical scenarios of IoT MiniApp

Embedded Module



To B

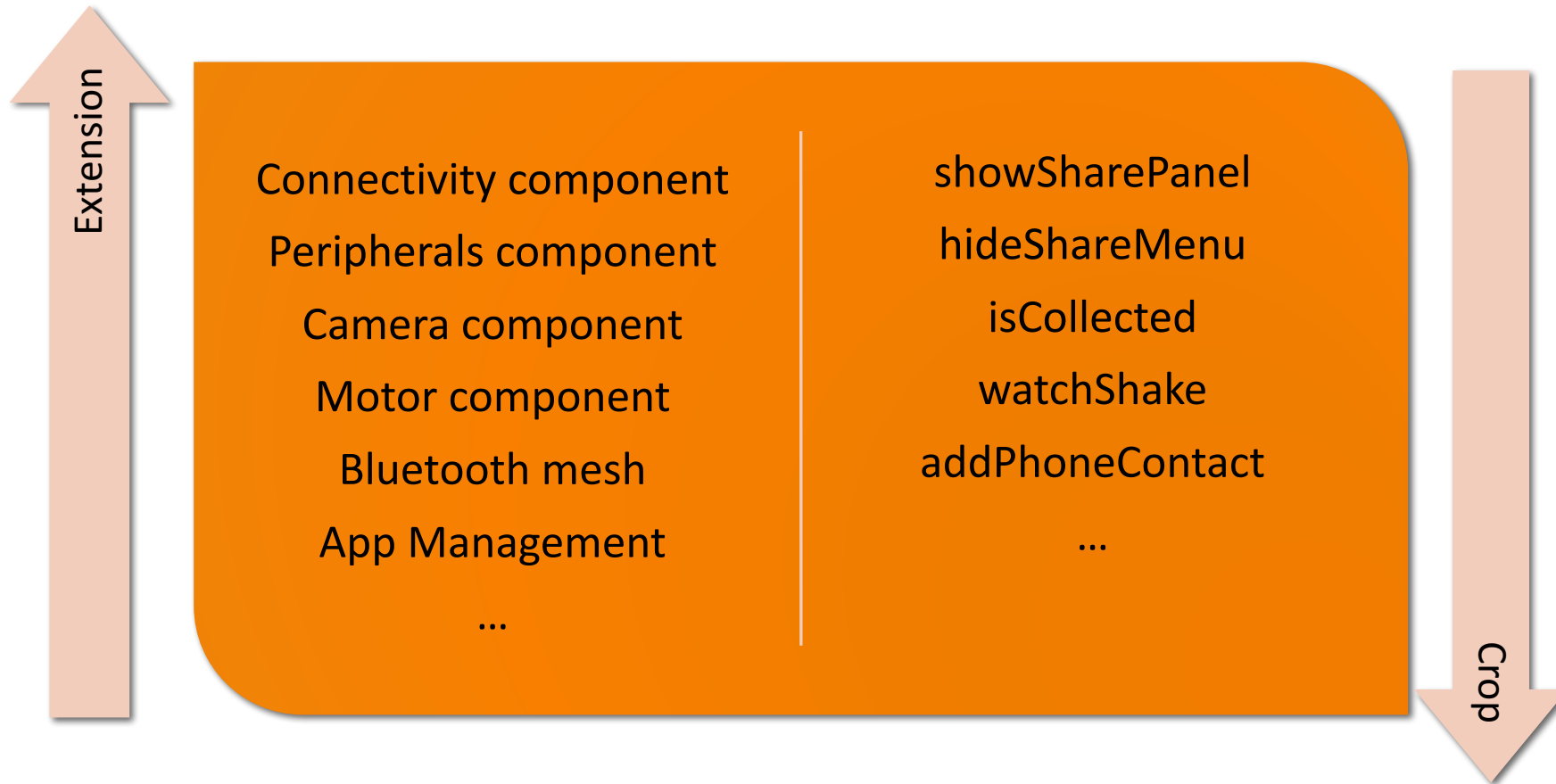


To C



# Extension & Crop

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# What should be standardized

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## 1. Connectivity component

**Requirement:** Make IoT Mini App developers do not care communication protocols details

**Define:**

Supported protocols: UDP/TCP/HTTP/MQTT

# What should be standardized

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## 2. Peripherals component

**Requirement:** Provide developers the way to control on-chip peripherals without write c/asm code

### **Define:**

Peripherals component include

UART/GPIO/I2C/SPI/ADC/DAC/PWM/TIMER/RTC/WDG

# What should be standardized

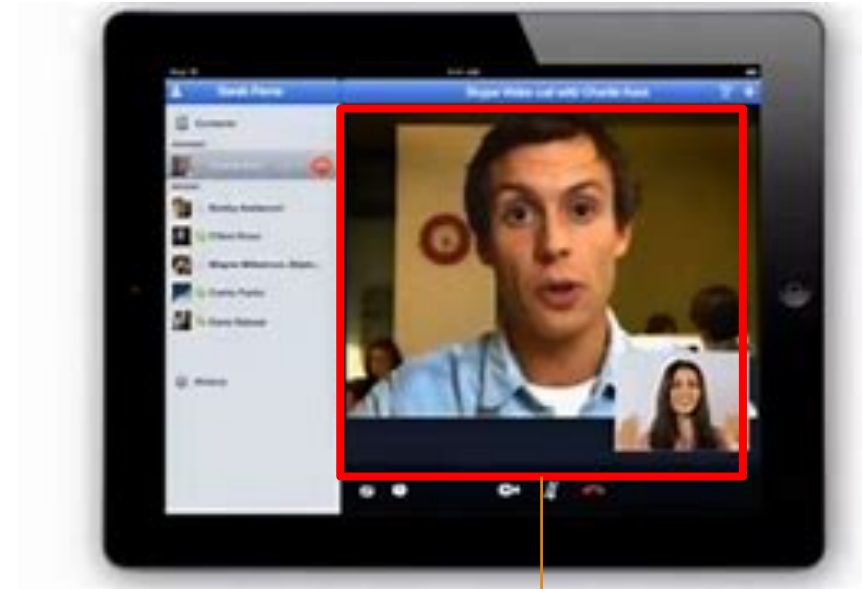
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## 3. Camera component

**Requirement:** Camera will be used as facing tracking, Video Calls, etc. Provide this component to avoid developers to deal with camera buffer, encode and decode.

### **Define:**

Camera component include properties/control events



Camera component



# What should be standardized

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## 4. Motor Component

**Requirement:** Exposing low-level motor control event to IoT Mini App to make motor perform well enough.

**Define:**

Motor Component include Stepper/ Servo

# What should be standardized

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## 5. Bluetooth Mesh

**Requirement:** Make developer to use bluetooth mesh uniformly.

**Define:**

Bluetooth Mesh JSAPIs

Specify the standard process of provision/status submit

# What should be standardized

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## 6. App Management

**Requirement:** Make developers to manage app package storage and app switch action on Device by themselves.

**Define:**

App Management JSAPIs InstallApp/UninstallApp/startApp/startPage

Thank You!

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