

## **Section 8 - Smart City SDK**

Section 8 describes the need for better software development tools that can make it easier (faster, cheaper, better) to create, develop, deploy, and maintain Smart City Applications, independent of the subject matter (equal applicability to transportation as to wellness for example).

### **Section 8.1 - Current State**

This section describes the current state of Smart City App development:

Proprietary development & deployment pillars

Lack of interoperability

Lack of consistent support for common APIs

No best practices & no community of SMEs

Lack of portable vendor agnostic tools

Difficulties in enabling code reuse

### **Section 8.2 - Smart City SDK Proposal**

This section describes the overall approach for the creation of the Smart City SDK. Two elements are at play – bringing together modern software development tools and libraries and the creation of a vibrant open source development community.

#### **Section 8.2.1 - Technical Elements**

This sub-section focuses on the technical elements of the proposal:

Vendor & HW agnostic software development toolkits

Support for common APIs

Github tooling

Best Practice white papers & SME access

Sample guides

#### **Section 8.2.2 - Community Elements**

This sub-section focused on the community elements of the proposal:

Creating an open source community with broad, diverse members including all people from all the constituent types (civic, commercial, academic, individuals) and from varied verticals (transportation, buildings, wellness, disaster recovery, etc, etc.)

Creating an open, transparent governance model

Growing and sustaining an active community

## **Section 8.3 - Goals of the City SDK Proposal**

How the City SDK will help the GCTC Transportation SuperCluster

How the City SDK will help the other GCTC SuperClusters

How the City SDK will help the overall Smart City App community & marketplace

## **Section 8.4 - Next Steps**

Gaining Consensus

Building a critical mass

Launching a community/project

Initial technical goals

Sustaining community