

smartaipei





The Vision of Smart Taipei

SMART FUTURE

| City Internationalization | City Diplomacy

Smart city is an opportunity for Taiwan to the world.

| Livability and Sustainability |

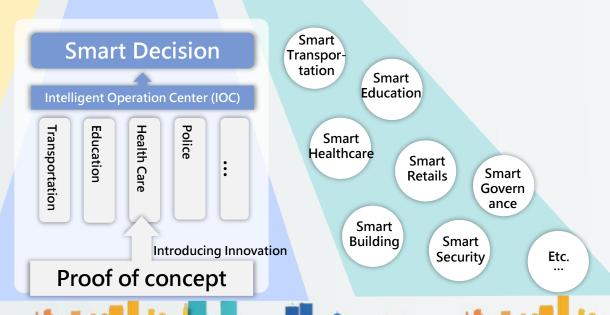
Smart Taipei

Changes the essence first, then strengthen the system.

| Industrial Globalization | Industrial Development

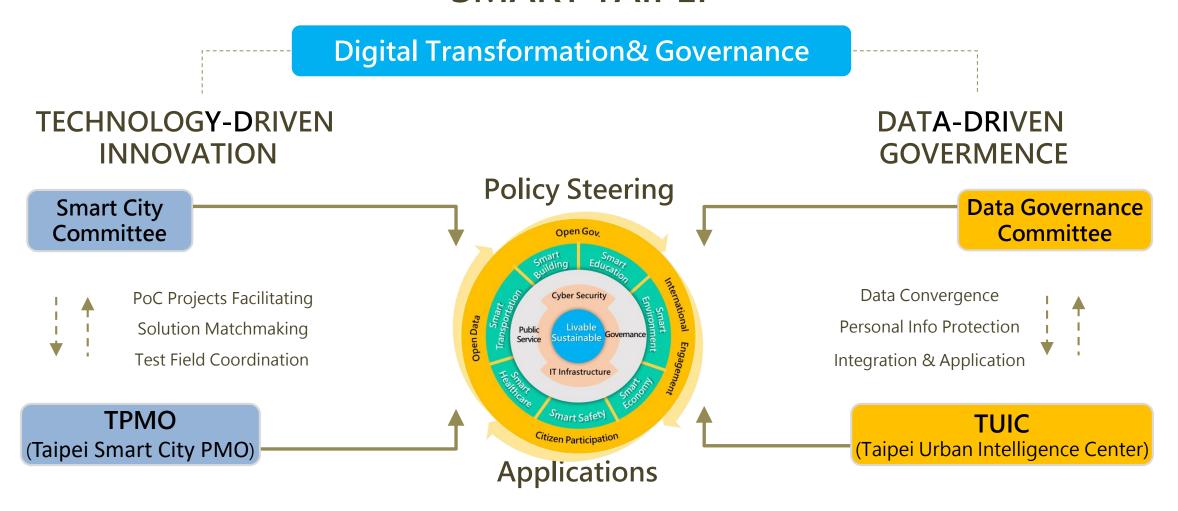
Meets the needs of the global market through the smart city industries.





Dual Cores for Smart Taipei

SMART TAIPEI



Taipei Smart City Open Gov. **Development** Smart Education smart Building Framework International 1 Core + 7 Smart Transportation **Cyber Security** Environment **Key Fields** Smart Open Data **Drivers** Livable Public Governance Sustainable Service Connecting **IT** Infrastructure Smart on Feorgan Vision Frameworks Smart Safety Core Fields Citizen Participation Methods

Government as a Platform, City as a Living Lab

Dig out need from government, call for solution/idea from private based on POC concept, to speed up scale up.

Citizen **Participation**

Open up channels of COMMUNICATION, allowing citizens to communicate directly with authorities.

Bottom-up PoC

Provide Industry OPPORTUNITIES & Promote Innovative Solutions through Proof of Concept (PoC) Model.

Top-down Planning

Bring INNOVATION into Government Cross-Cutting Projects & Smart City Projects.

Policy Advisory

Dep. IT **Change Culture TPMO**

30+

Taipei City Government Agencies

Facilitate Innovation

270+

Top-down **Bottom-up**

Engage Stakeholders

500 +

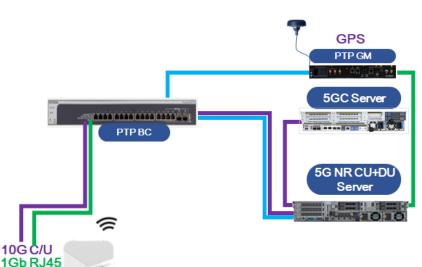
ICT Vendors & Research Institutions

Smart Sterilization and Delivery Robot Embedded with 5G Network

- Disinfection of isolated wards by UV light of disinfection robot, and delivery of medicine, meals, and supplies to isolated wards by simple material delivery platform device.
- Minimizing the risk of infection and the consumption of protective equipment associated with medical access to isolation wards, reducing the overall burden of medical care.

450mm





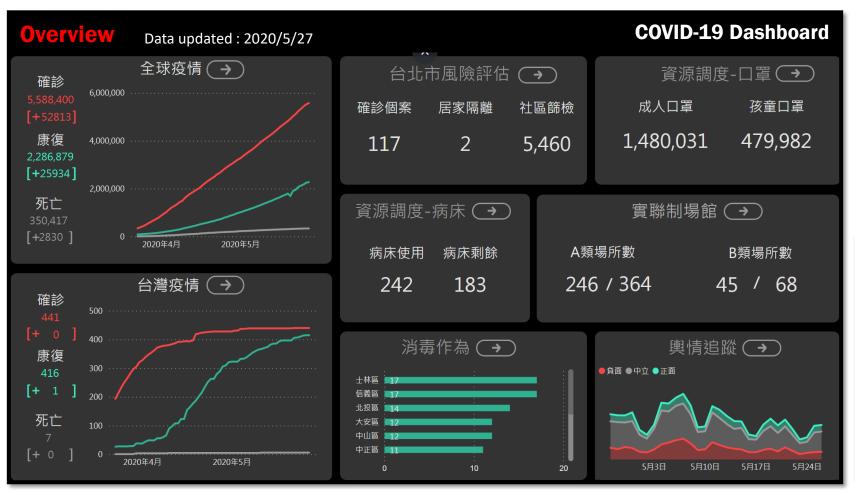
Sterilization Robot(UV light)



Medical Supplier Delivery Platform Installation

Taipei Urban Intelligence Center: COVID-19 Project

Using a clear visual layout, the dashboard displays COVID-19-related data and Taipei City-related resource integration info for city officials to use as reference for policy decision-making

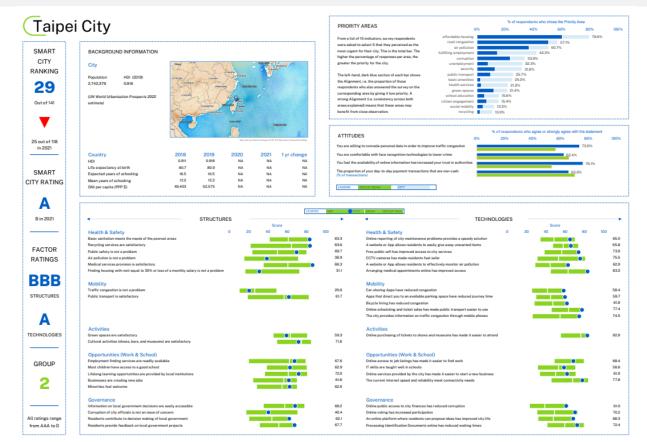


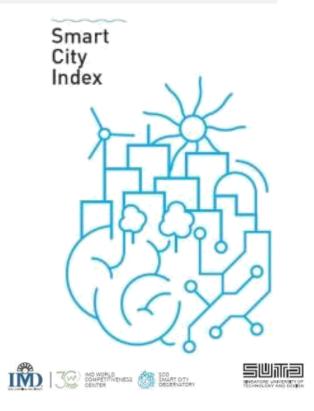




2023 IMD Smart City Index, **Taipei Advances to 29th Place**

The International Institute for Management Development, collaborated with Singapore University of Technology and Design(SUTD), released IMD Smart City Index(SCI) in 2023, where it ranked Taipei 29th (Level A) among 141 cities globally.





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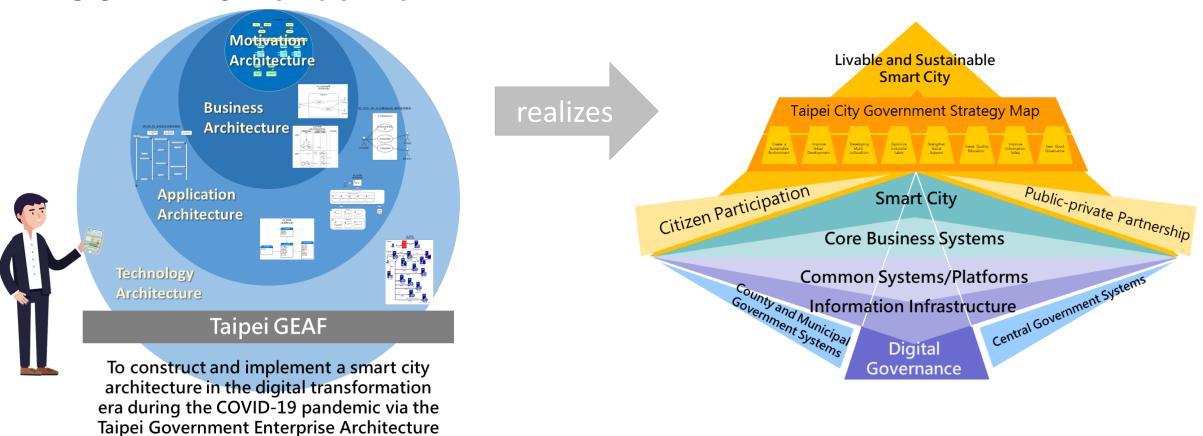
01 Taipei GEAF

Purpose

Smart City Architecture

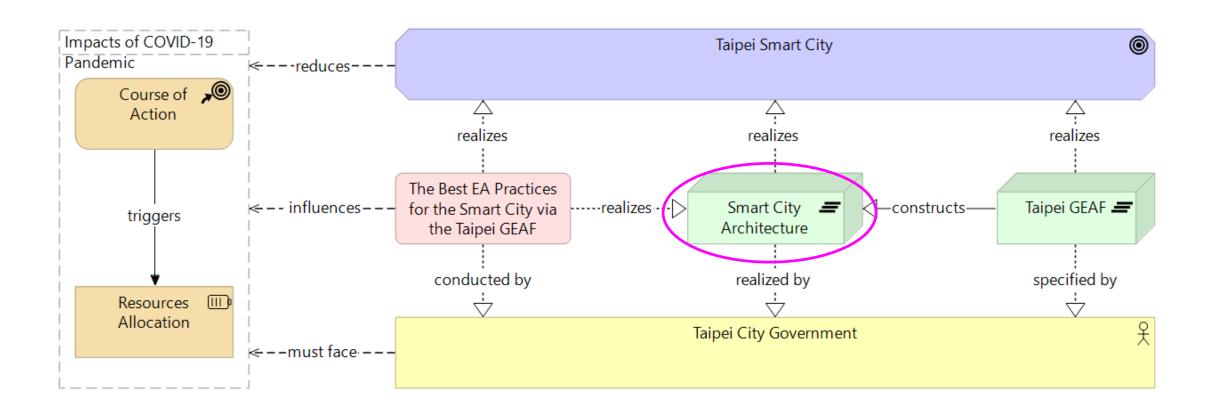
Framework (Taipei GEAF)

- Digital Transformation and Digital Services
- COVID-19 Pandemic



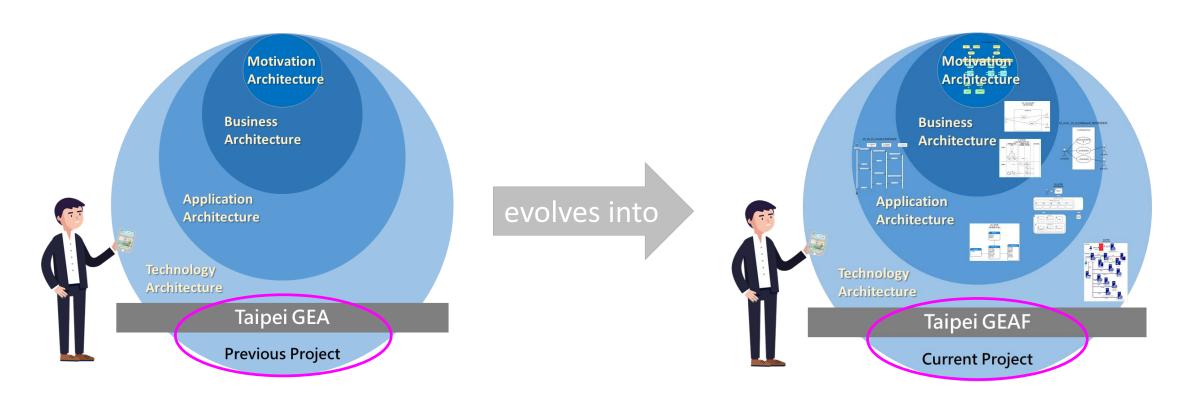
Impact

- Course of Action
- Resources Allocation

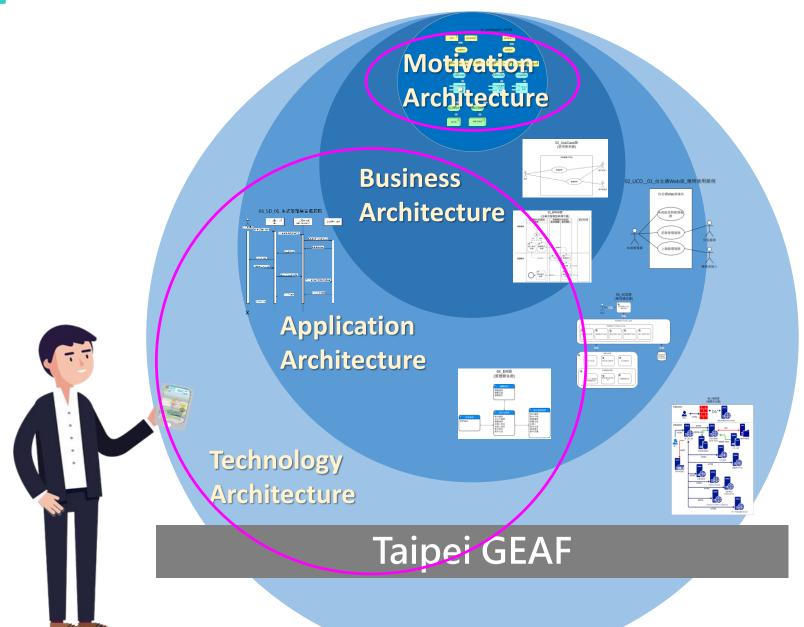


Sustainability

- Previous Project
 - questionnaire survey and field interviews (2018-2019)
- Current Project
 - implementation (2019-2022)



Taipei GEAF

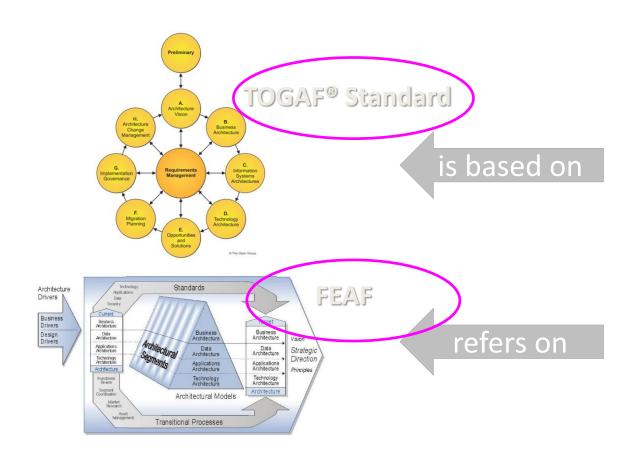


02

Taipei GEAF Mini Set

Framework

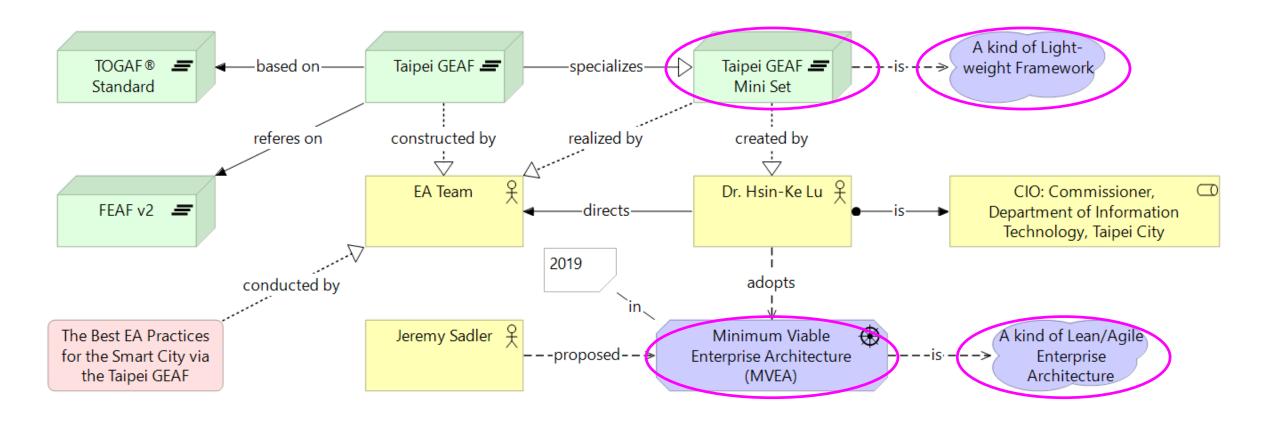
- TOGAF® Standard
 - ADM and ArchiMate
- FEAF
 - common method





Framework

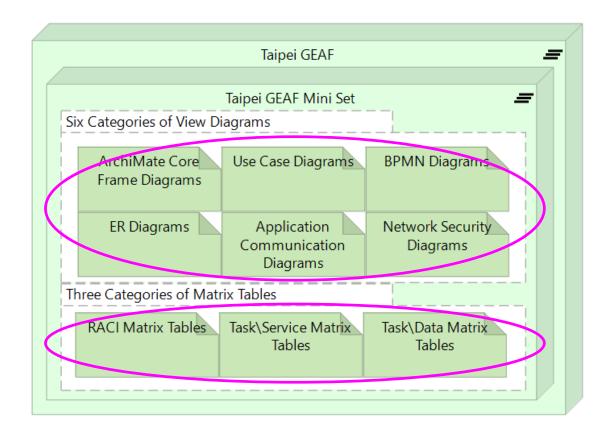
- Light-weight Framework
 - Taipei GEAF Mini Set
 - minimum viable enterprise architecture (MVEA)

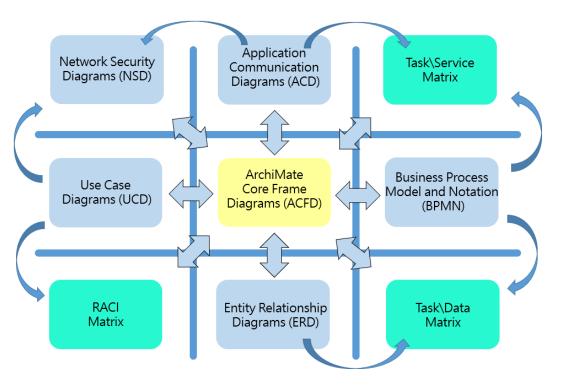


Mini Set

Artifacts

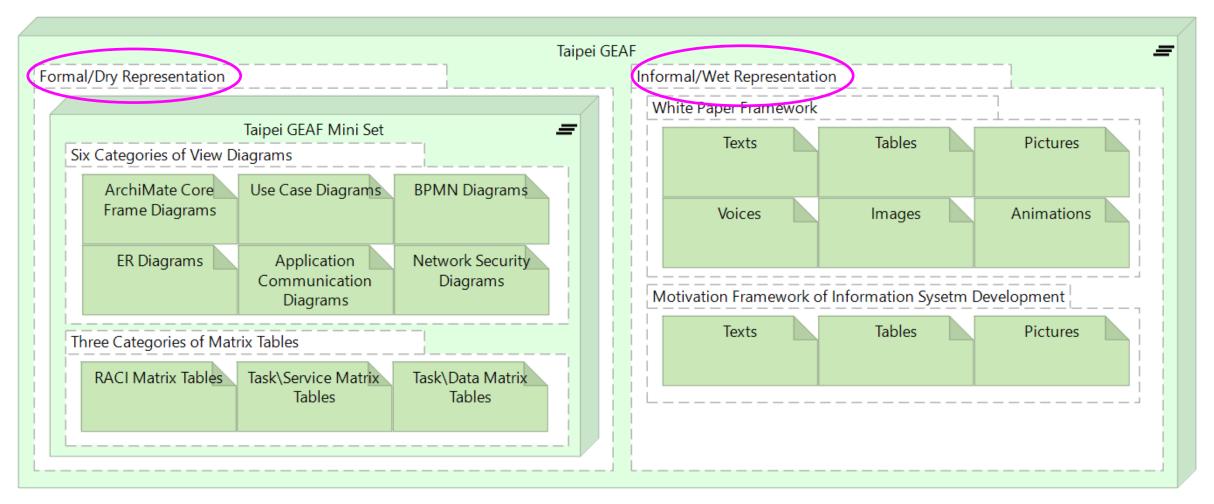
- six categories of view diagrams
- three categories of matrix tables



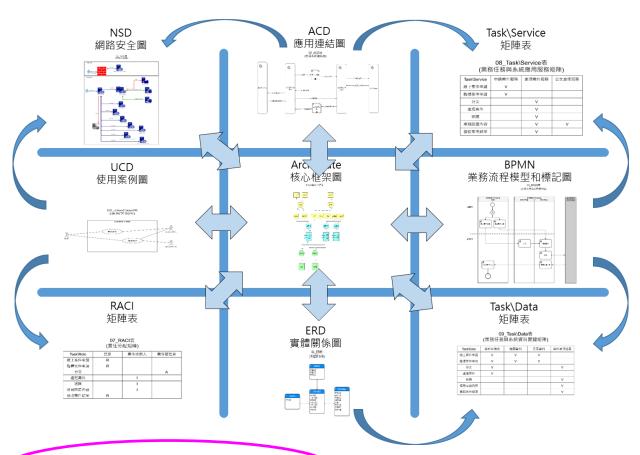


Presentation

- Formalization
 - formal/dry and informal/wet



Productions



Formal/dry representation via Taipei GEAF Mini Set

Implementation strategy		on content of promotion	budget	future situation indicator indicators		
項目	執行策略	實質推動內容	預算	現況指標	未來指揮	辦理機關
1.1 台北通	1.1.1 卡證服務	/ / / / / / / / / / / / / / / / / / /	110 年 - 1,000	(1) 口北廸服	(1)台北通服務	資訊局
	整合	服務網站採台北通會員登入。	萬元	務整合達	整合達成率:實	
			111年:1,000	成率:實	際整合服務數/	
			萬元	際整合服	新增整合 10 項	
				務數達成	服務*100%,	
				率為	110年:50%	
				100%	111年:100%	
				(2)109年	(2)公共費用介	
				公共費用介接	接項目數	
				項為4項	110年:6個	
					111年:10個	
	1.1.2 市政服務	台北通結合訂閱、公告及推播功	110年:300	公告功能已完	府內活動公告申請	資訊局
	訊息	能,把市府訊息提供給民眾。	萬元	成,推播功能	於台北通發佈案數	
			111年:300	優化中。	完成率 : 100%	

Informal/wet representation via text, table, picture, voice, image, and so on.

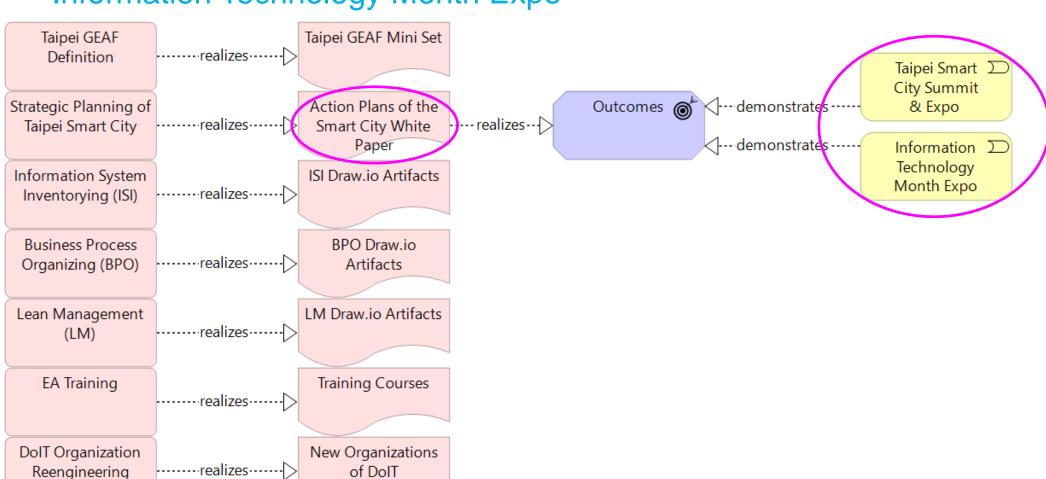
Above example is one of action plans of the white paper

current

03 Results

Expo

- IT Governance with the Taipei GEAF
 - Taipei Smart City Summit & Expo
 - Information Technology Month Expo



Awards & Recognition

2021 Smart Taipei Awards & Recognition



2021 SCSE Innovative Application Awards

(SCSE, Smart City Summit & Expo)

- Smart Transportation: Autonomous Bus on Xinyi Bus Lane
- Smart Building: Public Housing AloT Platform
- Smart Environment: Taipei Smart Water Meter Promotion Strategy



2021 IDC Smart City Asia Pacific **Awards**

(IDC, International Data Corporation)

- Citizen Engagement: Taipei Pass-Digital Pass to Government
 - Mobile Service
- Social Service: Technology-Assisted Pandemic Prevention Project

2021.03

2021.03

2021.05







(SCSE, Smart City Summit & Expo)

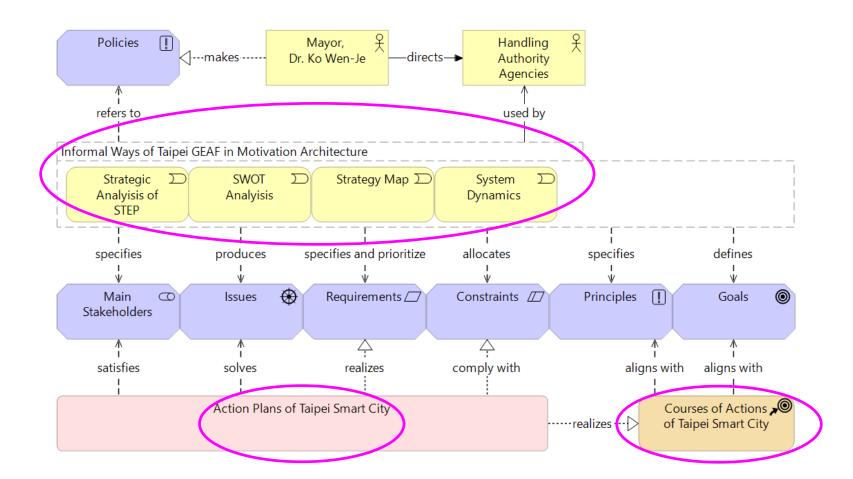
■ Visually impaired-friendly bus IoT platform





White Paper

- Motivation Architecture Implementation
 - strategic analysis by using informal ways
 - policies directed by the mayor, Dr. Wen-Je Ko

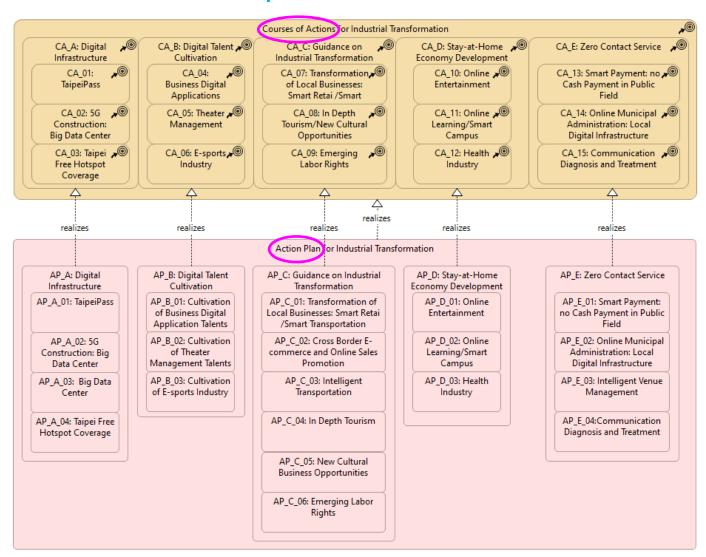






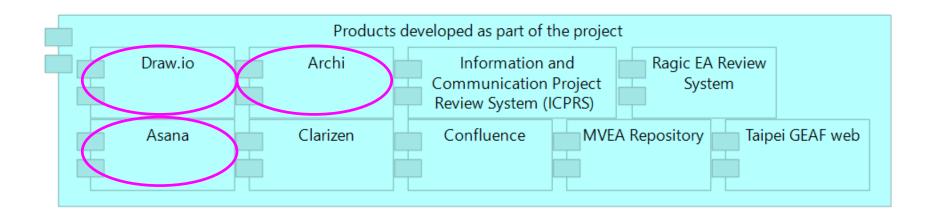
Action Plans

- Alignment
 - courses of actions vs action plans



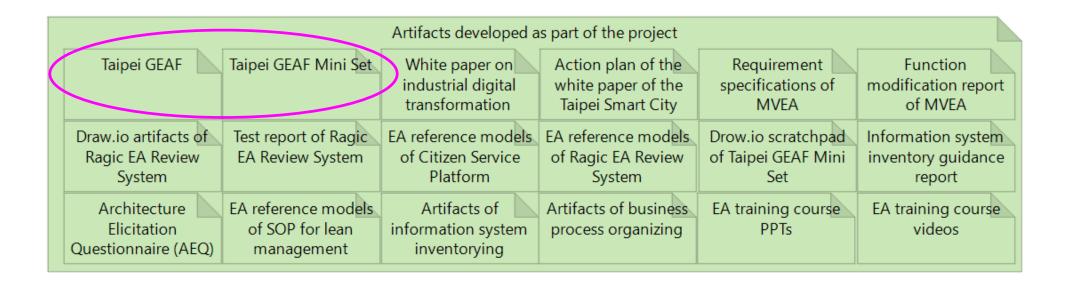
Products

- Draw.io:
 - for view diagrams and matrix tables
- Archi:
 - for Kanban
 - for motivation and project architecture
 - for drafts of system architecture
- Asana:
 - for agile project management products



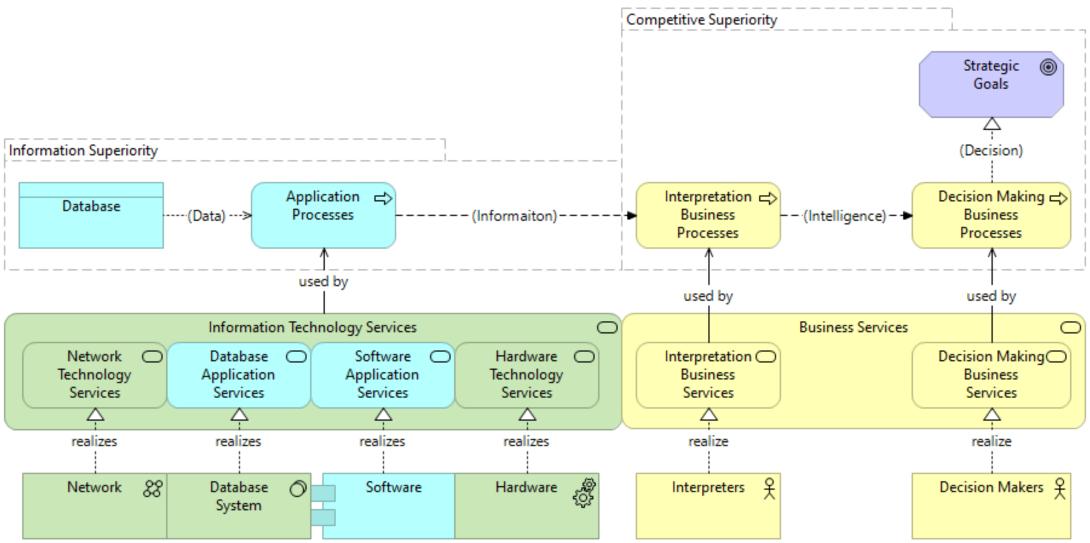
Artifacts

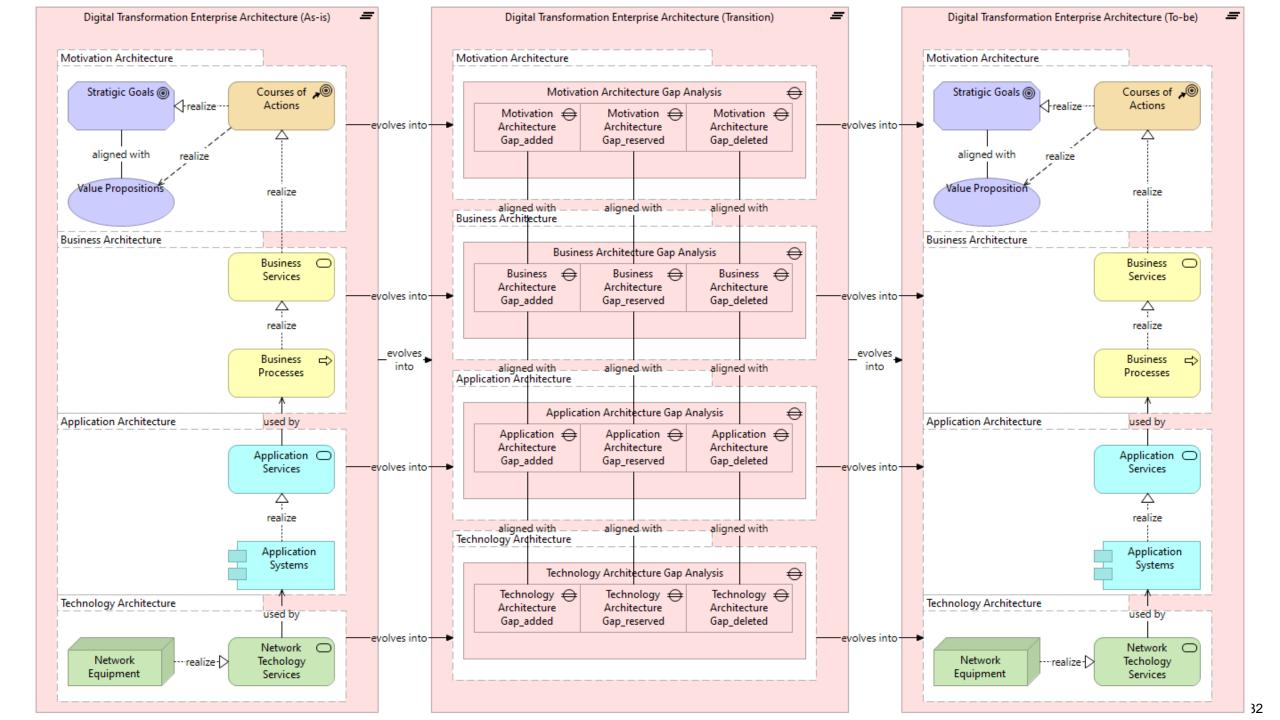
Abundant Artifacts of this EA Project



04 Digital Transformation Model

Decision Making Processes of Digital Transformation





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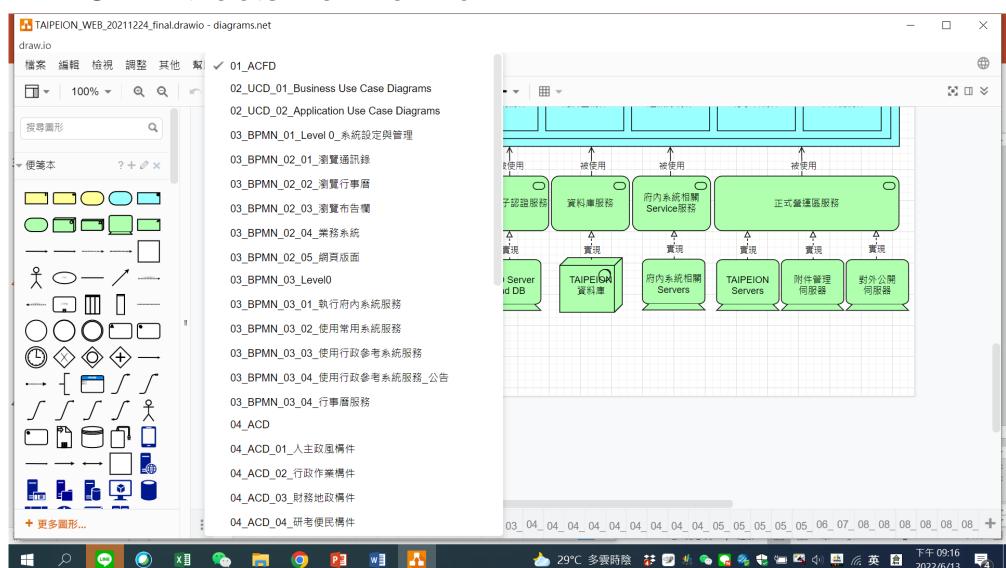
Kanban Desk

2022/06 Kanban Desk for EA Team

Do	In Progress	V&V	Done				Delivered
p23_3D台北系統(信 儒, 雅勻)	p18_多煤體影音服 務系統(信儒, 荏糠)		p01_TAIPEION Web and App(信儒, 信毅, 佩樺)	p03_新公文系統(信 儒, 冠仁)	p07_新網站整合平 台(信儒, 文達)	p11_單一陳情管理 系統(信儒, 永鑫)	
p24_GIS圖資共通平 台系統(信儒, 雅勻)	p21_iVoting系統(信 儒, 紋均)		p10_1999話務系統 (信儒, 永鑫)	p14_無紙化會議管 理系統(信儒, 宸銘)	p13_議會案件管理 系統(信儒, 素如)		
			a02_性平委員會(信 儒, 志宏, 守心)	a03_資通訊活動專 案獎補助受理審查 及執行(信儒, 春霞)	b01_市長盃黑客松 (信儒, 彥均)		
			a09_臺北市年鑑(信 儒, 志宏, 守心)	a05_智慧城市首長 高峰會(信儒, 春霞)	a06_智慧城市展(信 儒, 春霞)		
p25_新聞知識系統 (宇昕, 彥均)	p15_新知識管理平台(字昕, 淑娟, 冠仁)		p02_台北通 Web and App(字昕, 子尹)	p05_市民服務大平 台(宇昕, 媛婷)	p04_電子請購核銷 系統(宇昕, 器瑛)		p08_台北燈會系統 需求分析(宇昕, 素 如)
p26_市政活動管理 系統(宇昕, 政諺)	p17_市政訂閱服務 管理系統(宇昕, 紋 均)		p09資料大平台(宇 昕, 翊倫)	p12_Pay.Taipei(宇昕, 家瑋)	p06_臨櫃申請案件 處理系統(宇昕, 媛 婷)		p27_資訊計劃管理 系統(宇昕, 翠瑛)
			a10_資訊聯席會報 (宇昕, 國基)	a07_資訊月(宇昕, 翊耘)	a08_資訊類一條鞭 人力管理(宇昕,鴻 輝)	b02_資料治理委員 會(宇昕, 家源)	p16_經費結報整合 系統(宇昕, 淑娟)
			a01_資訊計畫審查 流程(宇昕, 賢光)	a04_傑出資訊人才 、創新、應用獎(字 昕, 儒昇)	a11_管控EA團隊業 務(潔妮)		

TAIPEION Artifacts

TAIPEION Artifacts via Draw.io



Taipei GEAF Web

Home Page of Taipei GEAF Web

最新消息

GEAF辦你集

塑模方法

案件流程

教學影片專區

台北政府企業架構框架

Taipei Government Enterprise Architecture Framework (Taipei GEAF)

創建序言

根據美國資訊管理社群(Society for Information Management, SIM) CIO關注議題的研究,資訊科技與企業策略 對齊(IT and Business Strategy Alignment)幾乎是歷年來最受關注的核心議題之一,因應產業界對資訊系統整 體規劃的實質需要,加上公司治理及資訊治理的法定規範,多層面地驅動企業架構(EA)方法的發展與應用,例 如美國政府的聯邦企業架構框架(FEAF)、美國國防部的DoDAF、以及企業界廣泛採用的TOGAF架構。

美國聯邦政府因應此趨勢,在公部門領域制定聯邦企業架構框架(Federal Enterprise Architecture Framework, FEAF)以建立一個連貫且統合的方法論,讓行政機構資訊系統與資源易於整合分享、降低行政作業成本及改善 服務的品質。另外,亞洲較成功的案例為韓國,韓國E化政府已連續在2010及2012年聯合國E化政府研究調查 評鑑第一,策略上將資訊系統整合管理、集中化國家資訊治理及對民眾統合E化服務,以總體實現政府一體 (All-in-one Government),並成為全球的卓越標竿。韓國政府自2008年由公共行政與安全部(MOPAS)做為督導 部門,國家情報社會振興院(NIA)為執行機構,透過整合各部會的系統架構,統合政府企業架構(GEA)為單一治 理體系,以完成國家層次的無縫統合。可以想像,韓國政府企業架構(GEA)帶給國家前所未有的競爭優勢。



AEQ Examples

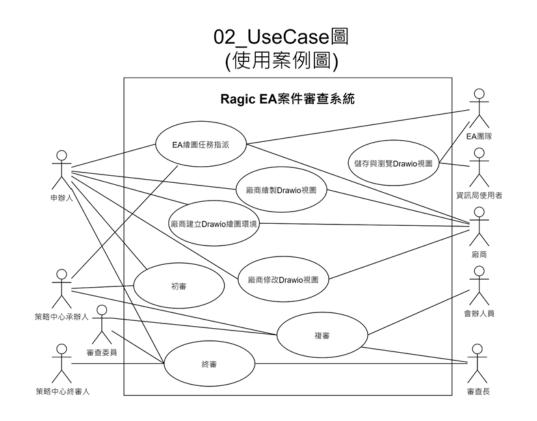
Architecture Elicitation Questionnaire: for BPMN

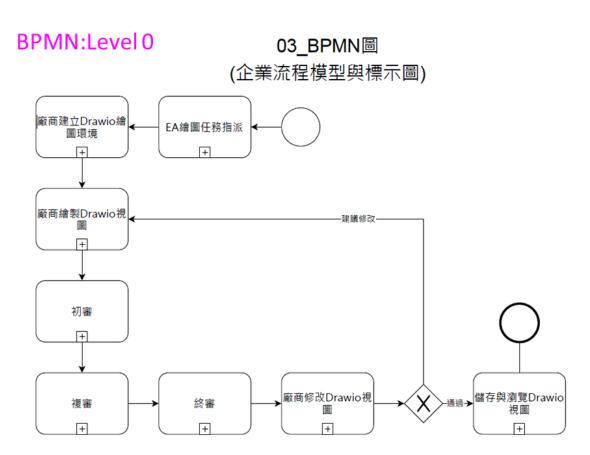
以單層繪製法繪製 03_BPMN圖 請回答系統架構之「靜態結構」問題 問題C01:請問欲盤點的系統名稱為何? (企業流程模型與標示圖) 說明:請參考問題A01作答。 答:市民服務大平台 市民服務大平台前台 市民服務大平台後台 新公文系統 問題C02:請問系統有哪些相關的使用者? 民眾 案件管理者 案件承辦人 說明:請參考問題A02作答: 答:民眾,案件承辦人,案件管理者 申請案件 問題C03:請問使用系統時,有哪些業務服務? 說明:請參考問題A03作答。 答:申請案件,處理案件 問題CO4:請問在每個業務服務中,各有哪些協作人共同處理業務? 說明:請參考問題C02作答。 1. 申請案件服務有民眾協作人。 2. 處理案件服務有民眾,案件承辦人,案件管理者等協作人。 問題CO5:請問問題CO4中的每個業務服務,每個協作人執行哪些 臨櫃案件 說明:請參考問題CO4, AO4作答。 申請 申請 1. 在申請案件服務裡,每個協作人執行的業務任務為: (1) 民眾執行線上案件申請, 臨櫃案件申請等業務任務。 2. 在處理案件服務裡,每個協作人執行的業務任務為: (1) 民眾執行接收案件結果業務任務。 (2) 案件承辦人執行案件處理,送陳,填寫回覆內容等業務任務。 (3) 案件管理者執行分文業務任務。 處理案件 處理案件 `-----線上案件-----問題C06: 請問有哪些與欲盤點系統相關的系統? 說明:參考問題A06作答。 答:新公文系統,市民服務大平台前台,市民服務大平台後台 送陳 **◆ト-公文 ◆** 問題CO7:請問與欲盤點系統相關的系統被哪些業務任務使用? 說明:參考問題C05, C06作答。 1. 市民服務大平台前台被分文,案件處理,填寫回覆內容等業務任務使 接收案件 填寫回復 2. 市民服務大平台後台被線上案件申請, 臨櫃案件申請, 接收案件結果 ₩-公文-4 □ 1 - - - □ 復內容 - - - - □ 內容 3. 新公文系統被送陳,填寫回覆內容等業務任務使用。

EA Project Review Process

BPMN: Ragic EA Review System

以分層繪製法繪製





Ragic EA Review System

Review EA Project by Reviewers



EA Training Videos

One of General Training Courses

最新消息 教學影片專區 GEAF迷你集 塑模方法 案件流程

A_政府企業架構理論與方法



Training Classes

One of Practical Training Classes













