個案計畫空間管理（GISP）
Geospatial Information System of Project

一、個案計畫空間管理（GISP）推動目的
Purpose for the Promotion of GISP

為增進政府施政績效及計畫管理效能，國發會規劃結合政府個案計畫與空間圖資，分階段建立個案計畫空間管理資訊系統（Geospatial Information System of Project，簡稱 GISP），提供地區整合資訊，強化施政空間標示及知識，加值計畫空間查詢及統計分析功能，以掌握中央資源分配與地方發展脈動，提高政府施政決策品質。

In order to improve government performance and project management efficiency, the National Development Council plans to combine government projects and spatial maps to establish the Geospatial Information System of Project, referred to as GISP in phases to provide regional integrated information, strengthen the administrative program spatial indication and knowledge, and add value in program spatial application to grasp the resource allocation by central government as well as development path by local government, in addition to improve the quality of government policy decisions.

個案計畫空間管理資訊系統
Geospatial Information System of Project

2019 年至 2020 年

第一階段：雛型建置
Phase 1: Prototype building

- 資料整理 **Data preparing**
  - 近1年計畫及標案空間資料分析檢討
    To analyze and review projects and spatial data of the past year.
  - 建立計畫及標案空間資料填報原則、介面及蒐集機制（依類別）
    To Establish the filling principle, interface and collection mechanism of projects and bidding spatial data
- 圖資建立 **Maps building**
  - 計畫及標案之主題式圖資
    Projects and bidding thematic maps
  - 現有相關圖資盤點及套疊
    nventory and Spatial overlay of the existing maps
- 圖臺雛型開發 **Prototype developing**
  - 運用測繪中心等現有圖臺及圖資
    To utilize NLSC's existing map table and map data
  - 查詢、基本統計、圖層套疊及環域分析等功能
    Searching , basic statistics, overlaying and buffering

2021 年～

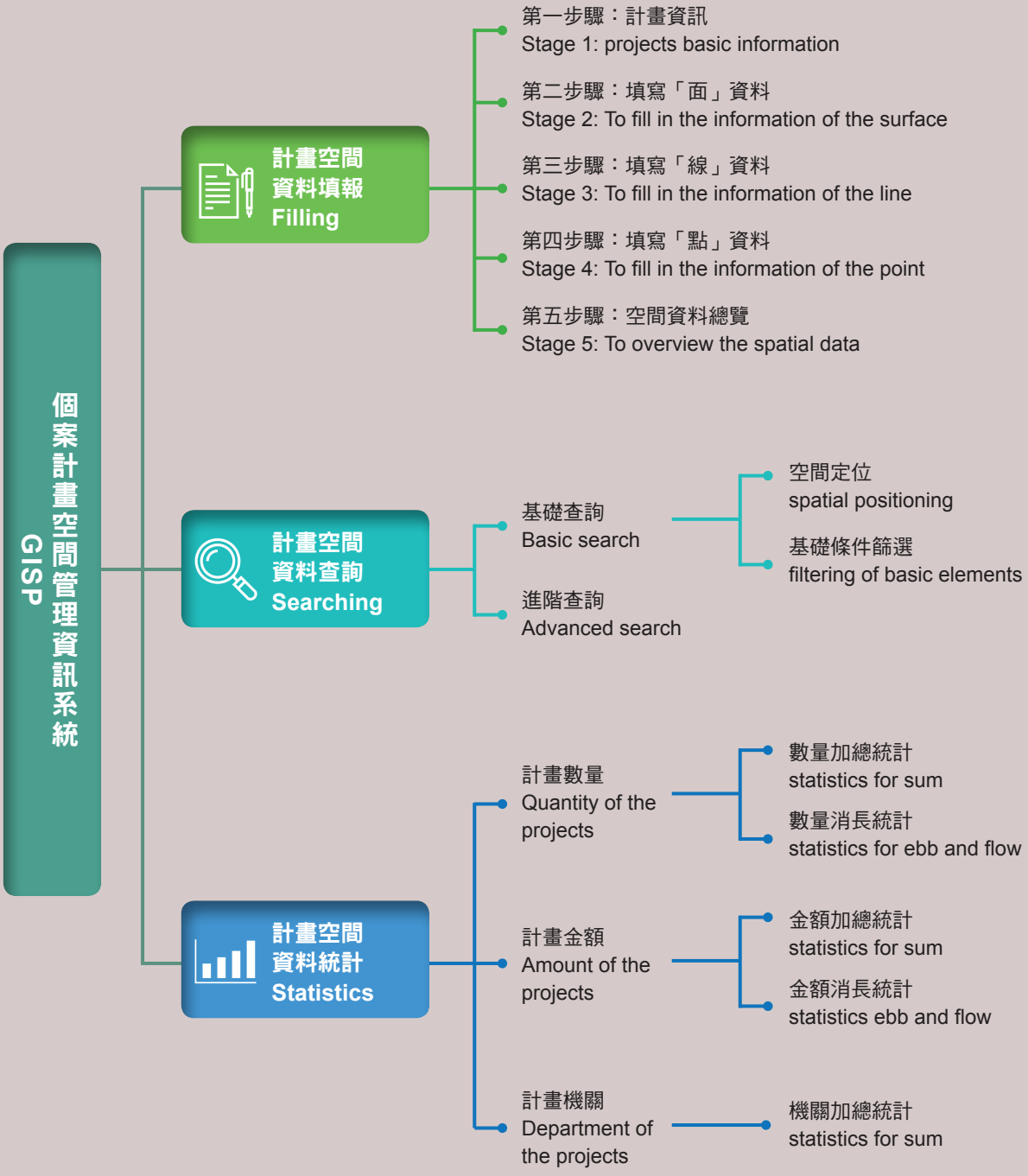
第二階段：系統擴充
Phase 2: System augmenting

- 資料整理 **Data preparing**
  - 近4年計畫及標案空間資料分析檢討
    To analyze and review projects spatial data from the past four years.
  - 整合連結計畫及標案空間資料
    To integrate and connect projects and spatial data.
- 圖資擴充 **Maps amplifying**
  - 計畫及標案之主題式圖資
    Projects and bidding thematic maps
  - 現有相關圖資套疊及統計
    Statistics and overlay of existing maps
- 進階功能開發 **Advanced developing**
  - 決策支援、進階搜尋及統計分析
    Decision support, advanced search, statistics and analysis
  - 資訊公開（民眾版網站）及資料開放（介接格式）
    Information disclosure and data opening
  - 行動載具應用服務
    Application for mobile device
  - 軟硬體資源擴充
    Resource expansion for both hardware and software

二、個案計畫空間管理（GISP）建置成果
Outcomes of the Geospatial Information System of Project (GISP)

國發會自 2019 年起完成建置個案計畫空間管理資訊系統，於計畫管理相關作業系統建置個案計畫空間資料填報平台，運用現行相關圖臺技術，介接內政部等機關現有圖資，GISP 截至 2021 年 4 月底已提供地籍及交通路線等 19 項填報圖資，以及人口統計、災害潛勢等 78 項主題圖資，透過空間位置、地標、重疊及多面向分析比較等，瞭解個案計畫位置分布及資源分配，並提供空間資料查詢及統計分析功能，分析政府計畫及資源投入之妥適性，擴大地理資訊決策支援應用範圍。例如長照 2.0 之據點布建，透過 GISP 圖層套疊，可瞭解據點規劃設置地點之現有交通、產業、地籍、是否處於地質敏感區域等資訊，以利決策判斷。

Since 2019, after completing the construction of the Geospatial Information System of Project, the National Development Council utilized the interactive mapping platform to integrate the existing maps from the Ministry of the Interior and other agencies. In the end of April 2021, GISP has provided 19 interactive maps, including cadaster and transportation routes, and 78 subject maps that were related to demographics, potential disasters, etc. Based on the multi-dimensional analysis among geolocations and local landmarks, we can understand government projects' spatial distribution and resource allocation, and later support spatial data query and statistical analysis functions for analyzing the appropriateness of government projects and resource inputs, and for expanding the application of geographic information system on decision making. For example, in the deployment of Long-term care 2.0 sites, the application of GISP enable us to understand the existing traffic, industry, and cadaster for addressing whether these sites are sitting on geologically sensitive areas.


個案計畫空間管理資訊系統
GISP
計畫空間
資料填報
Filling
第一步驟：計畫資訊
Stage 1: projects basic information
第二步驟：填寫「面」資料
Stage 2: To fill in the information of the surface
第三步驟：填寫「線」資料
Stage 3: To fill in the information of the line
第四步驟：填寫「點」資料
Stage 4: To fill in the information of the point
第五步驟：空間資料總覽
Stage 5: To overview the spatial data
計畫空間
資料查詢
Searching
基礎查詢
Basic search
空間定位
spatial positioning
基礎條件篩選
filtering of basic elements
進階查詢
Advanced search
計畫空間
資料統計
Statistics
計畫數量
Quantity of the projects
數量加總統計
statistics for sum
數量消長統計
statistics for ebb and flow
計畫金額
Amount of the projects
金額加總統計
statistics for sum
金額消長統計
statistics ebb and flow
計畫機關
Department of the projects
機關加總統計
statistics for sum

三、計畫智慧管理未來發展
Smart Management for Future Development

國發會未來計畫管考優化之重點，主要著重在數位化及智慧化之發展，將善用科技整合管理工具，進行各子系統及跨部會系統之垂直及水平整合，讓政府計畫管理資訊系統予以升級。另運用個案計畫空間管理資訊之優化，以具體、清楚及視覺化方式，讓各類計畫資本存量分布管理概念，得以落實。最後則透過資料探勘、數據分析及應用等人工智慧工具，讓政府計畫資料能以多元方式予以整合，並提供各級管理者進行決策支援參考，進而讓計畫績效管理能發揮最大效能。

The focus of the National Development Council’ s future management looks at the development of digitization and intelligence. It will utilize technology integration tools to carry out both vertical and horizontal integration of various subsystems and inter-ministerial systems. Such an effort allows the government to upgrade its information management systems. The optimization of individual spatial management is used to pragmatize capital stock distribution with specificity, clarity, and visualization. Finally, upon the utilization of artificial intelligence, including data exploration, analysis, and application, the government projects can be extensively integrated to provide managers at all levels with reference for their decision making; in that vein, the project performance management will be rather effective.

政府計畫管理資訊系統升級

（善用科技整合管理）

Upgrading for GPMnet

(making good use of technology and integrating management)

個案計畫
空間管理資訊優化

（資本存量分布管理）

Optimizing for GISP

(Capital stock distribution management)

政府計畫資料
多元整合及決策支援

（資料探勘、數據分析及應用）

Extensively integrating and decision-making supporting for Government programs

(data mining, analysis and application)