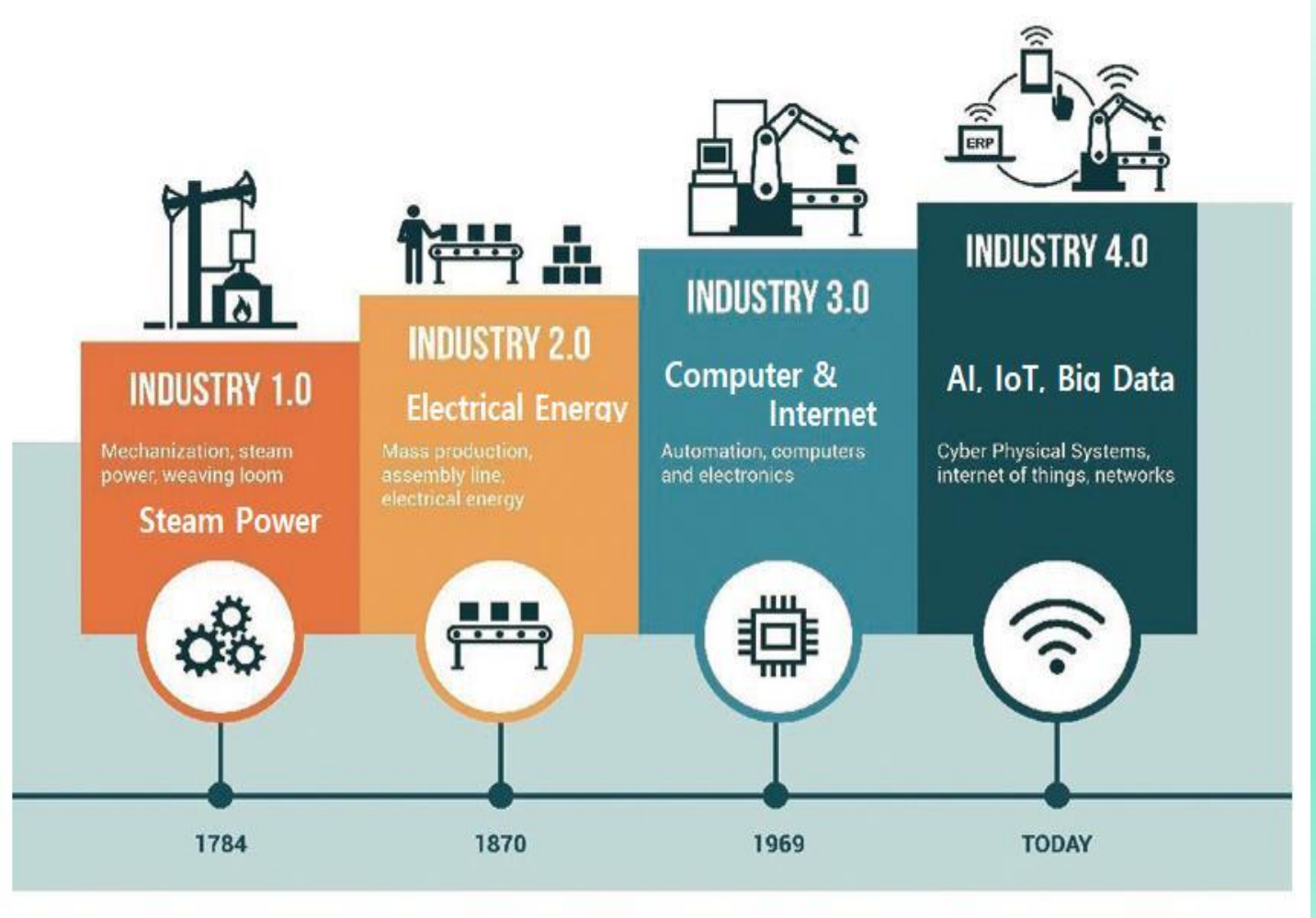
Geographic Information System(GIS) for AI & Digital Society

August 2025

Prof. Byung-Gul(BG) Lee
Jeju National University, South Korea

The Fourth Industrial Revolution, AI Society



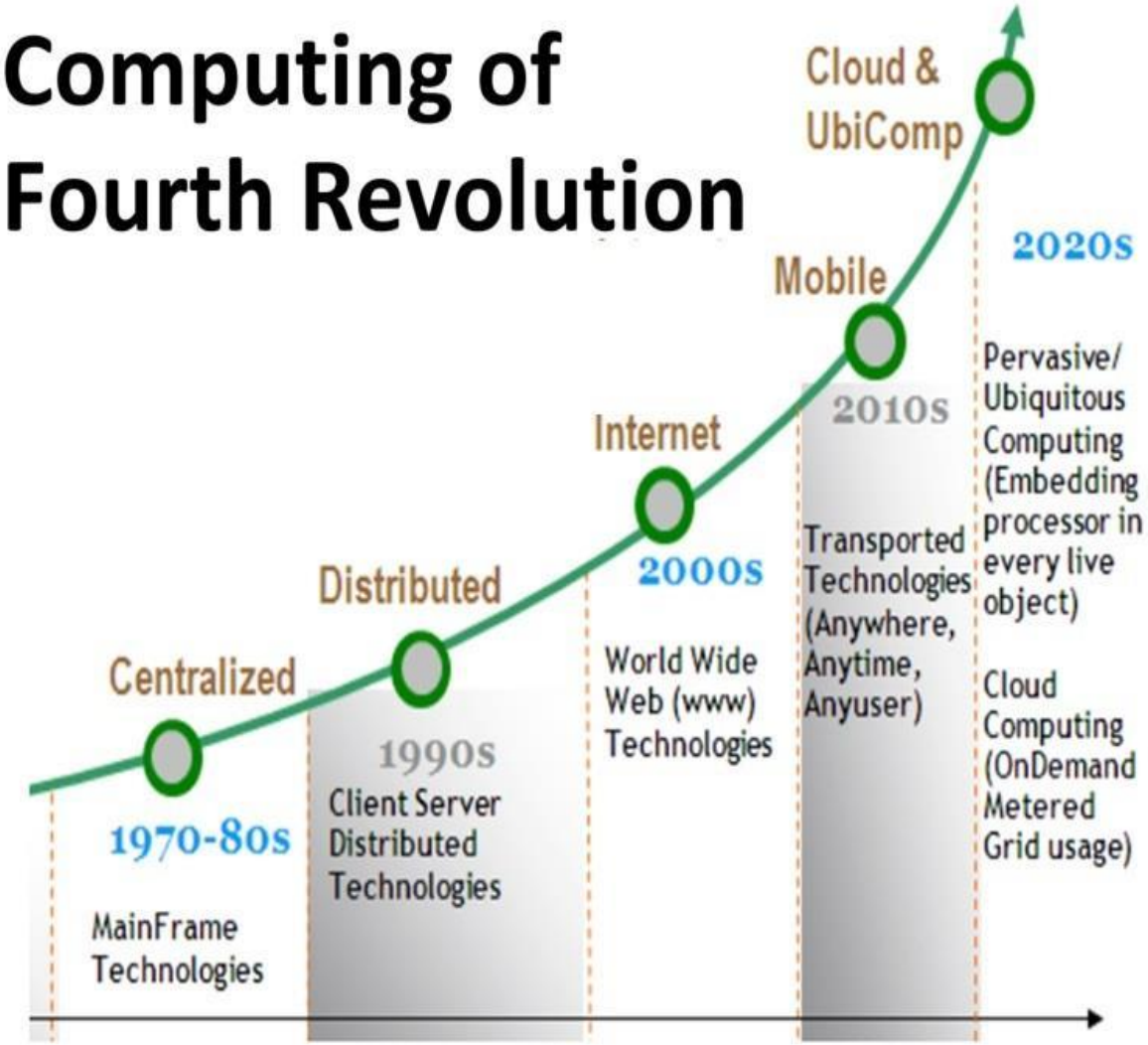
1) **Velocity: The world is more connected and interdependent, accelerating change faster than before.**

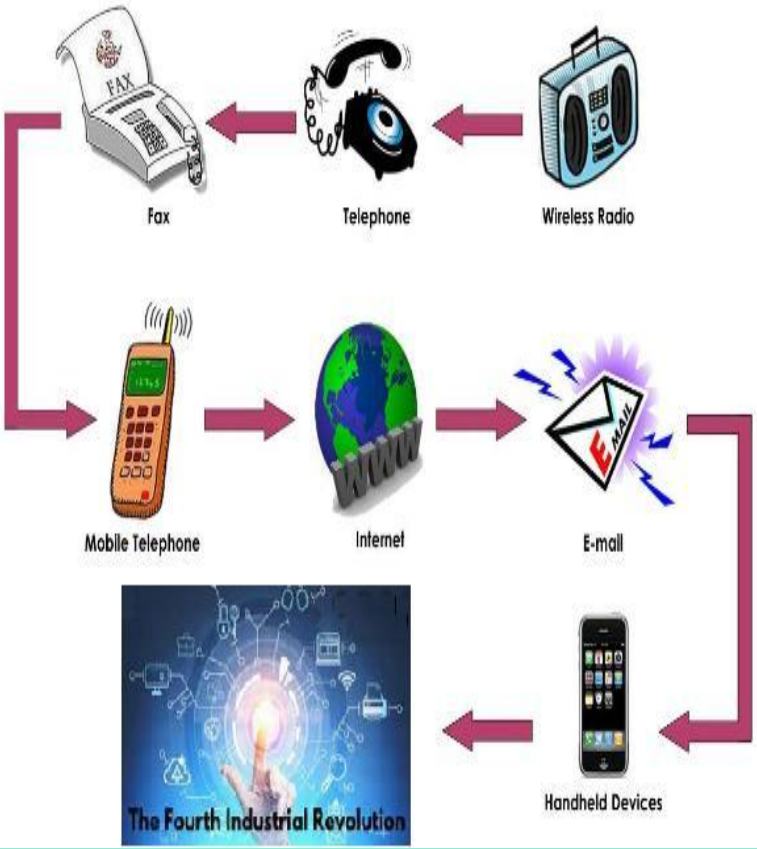
2) Ubiquity: Emerging tech impacts practically every industry, and convergence of these will radically transform how we live and perhaps what it means to be human.

3) Geopolitics and Economics: Unprecedented change will influence the very systems by which we operate in politics, trade and economics.

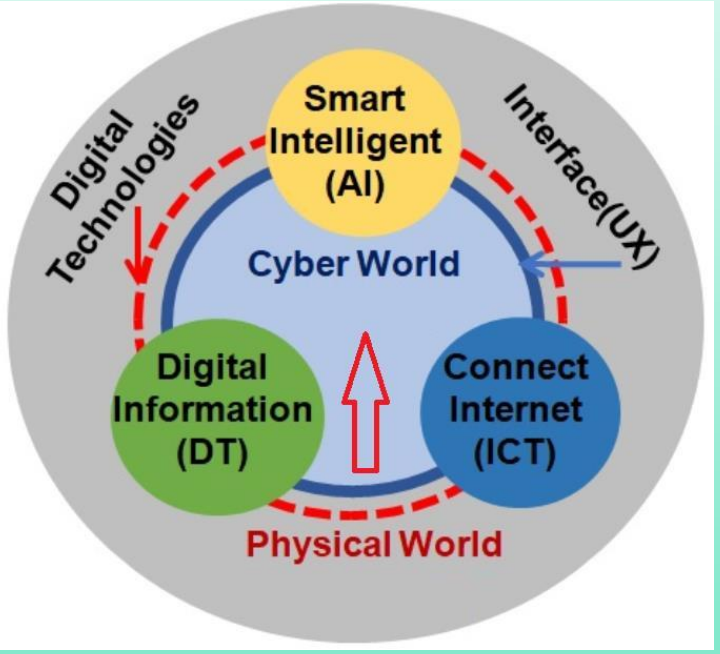
(Mahesh Velliyur,2019)

Computing of Fourth Revolution

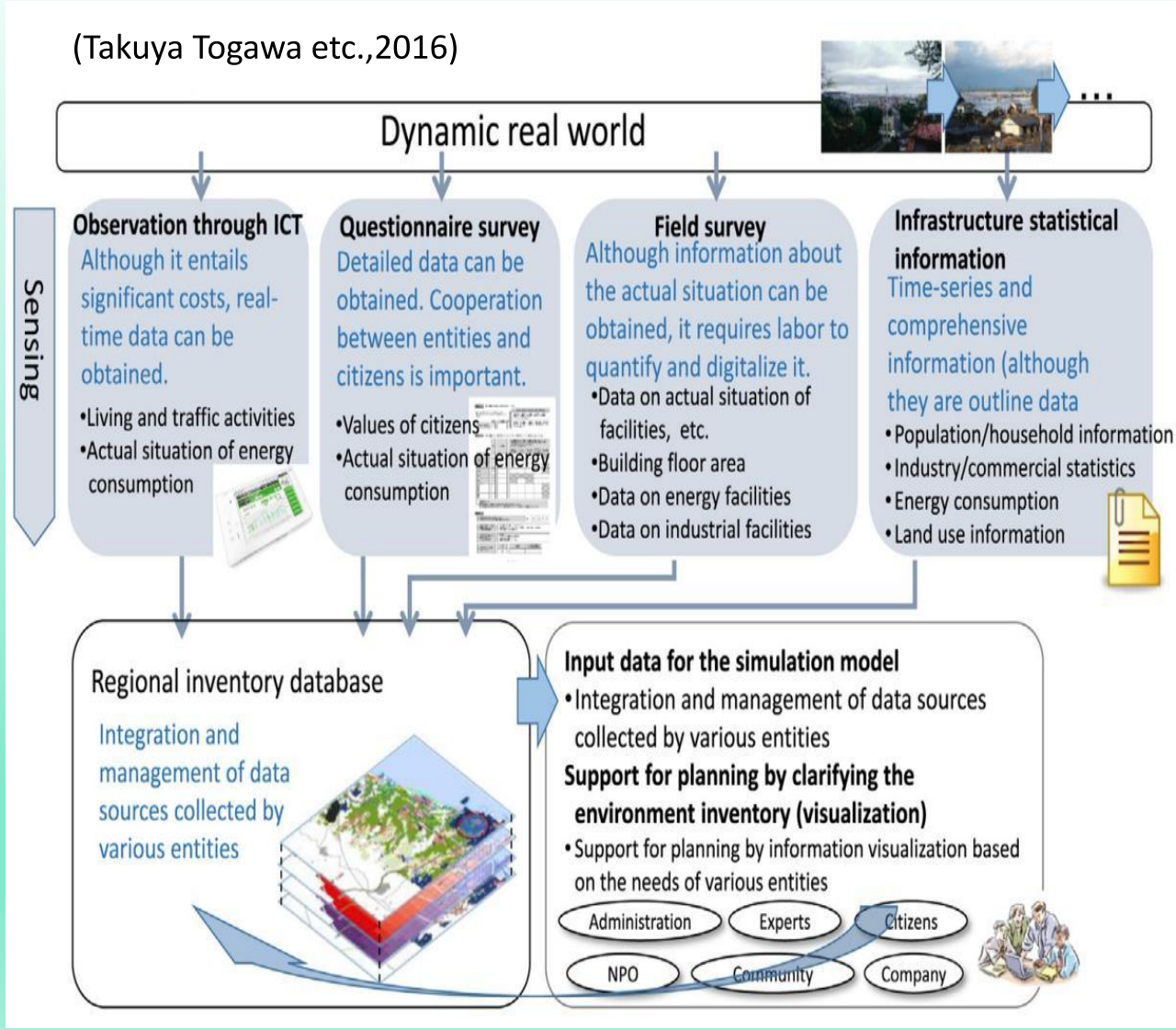




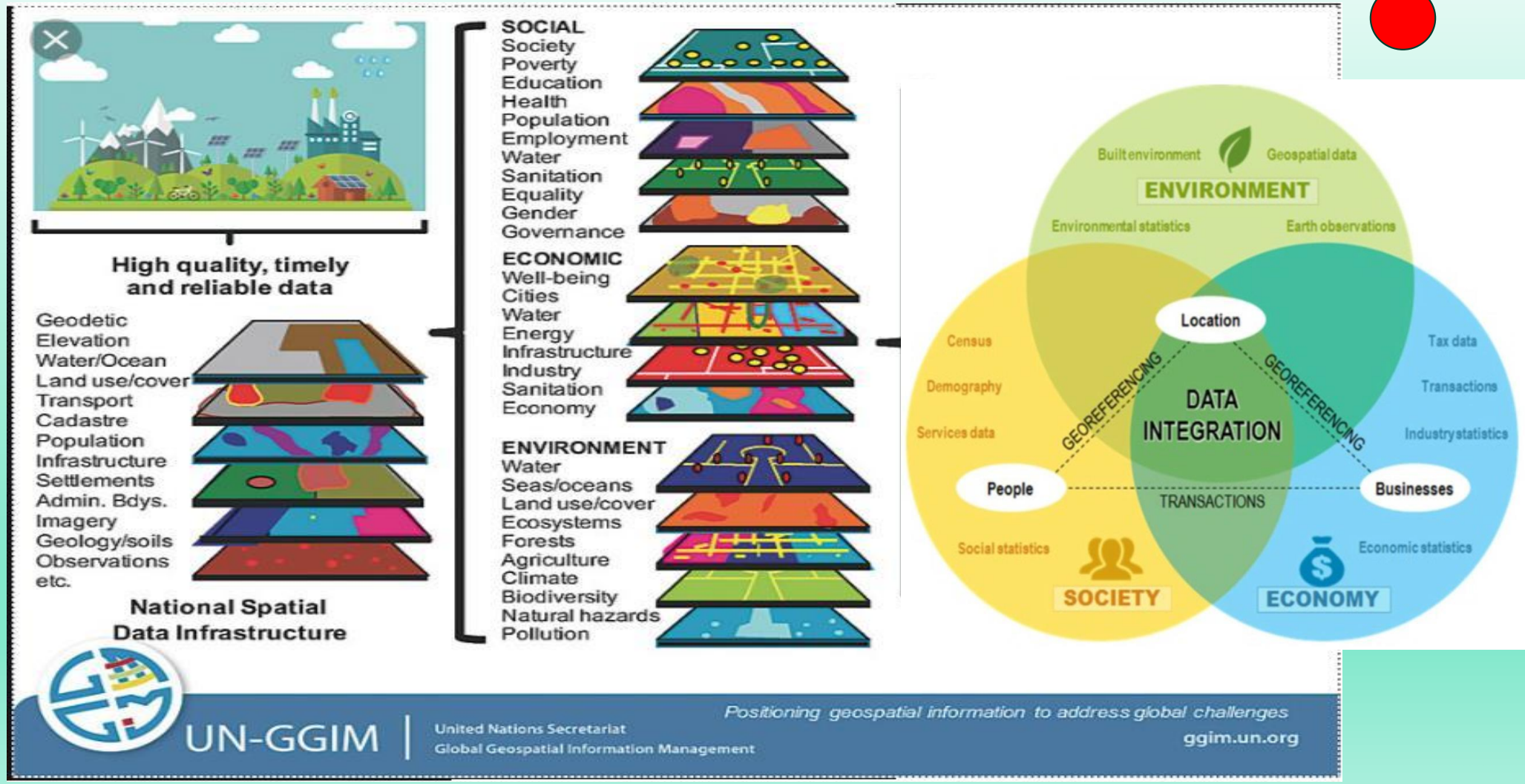
Cyber world



(Takuya Togawa etc.,2016)



GIS & Data Integration



GIS from Environment to Human Being



2

Ottawa Housing Registry & crime rates

Organization: Carleton University
Author: Abdul Hamed
Industries: Public Safety/Emergency Ma...



AWARD WINNER 2

Special Achievement in GIS Award for City of Escondido, California

Organization: City of Escondido, California
Author: Abe Coughlin, GIS Manager
Industries: Public Works



1

Real Estate Visualization in 3D

Organization: globolive3d pvt. ltd.
Author: Abhishek Shah
Industries: State and Local Government



Tropical Change Detection with SAR and UAV in Mamoni Valley, Panama

Organization: University of Redlands
Author: Abigail Bohman, Ruijin Ma
Industries: Natural Resources



42 5

Wildlife Crossings Saves Lives

Organization: DeKalb High School
Author: Abigail Detray
Industries: K-12 Education



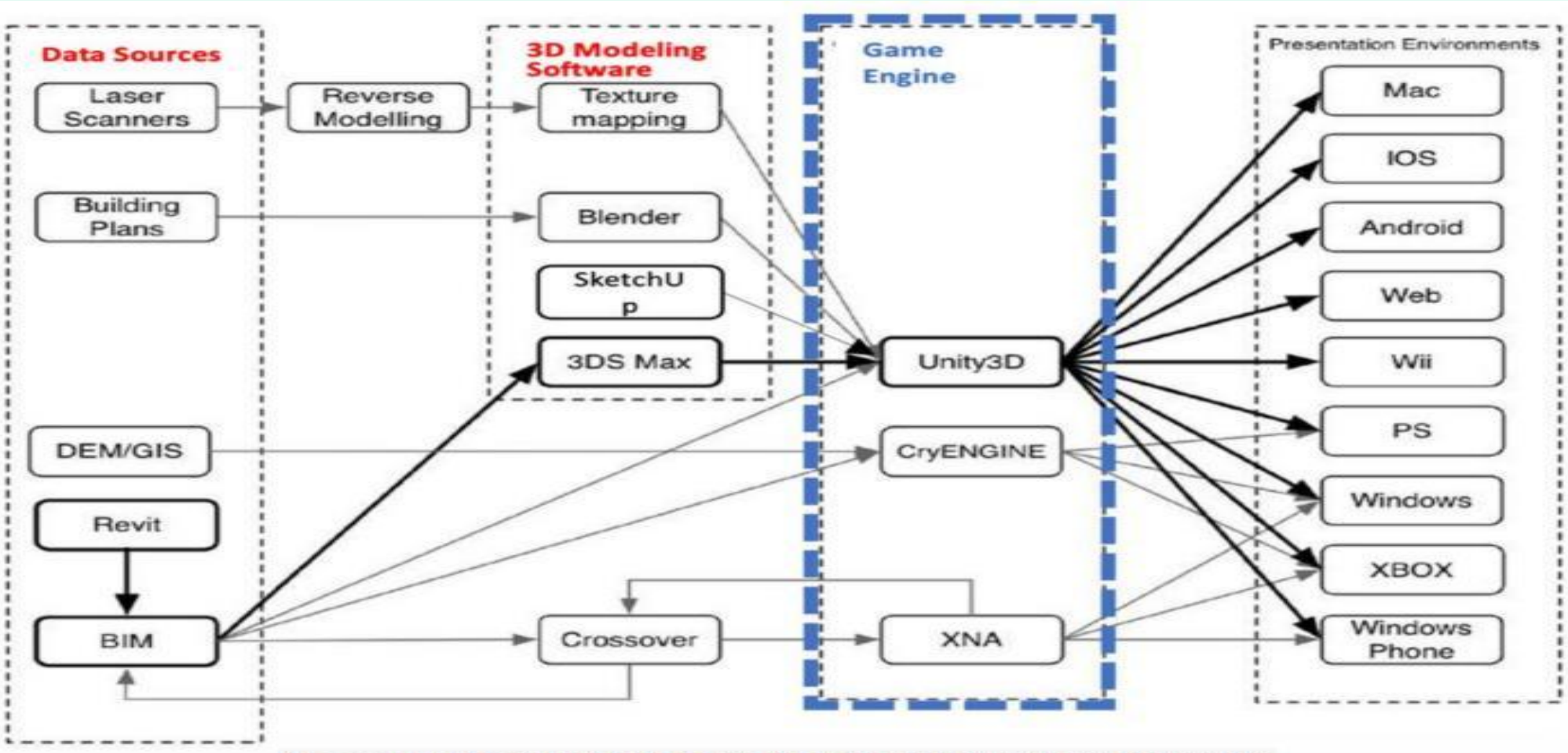
3

Summary of Public Feedback from Philadelphia's Upper Northwest Planning District SWOB Analysis

Organization: City of Philadelphia
Author: Abigail Poses
Industries: Community Development/Pl...

(ESRI, 2022)

Hybrid GIS



Research trend of integrated hybrid modeling technology

(Yu-Pin Ma,2021)