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# **EcoBank: A Flexible Data Platform for Sharing Ecological Data**

Running Head: The first ecological data platform in Korea

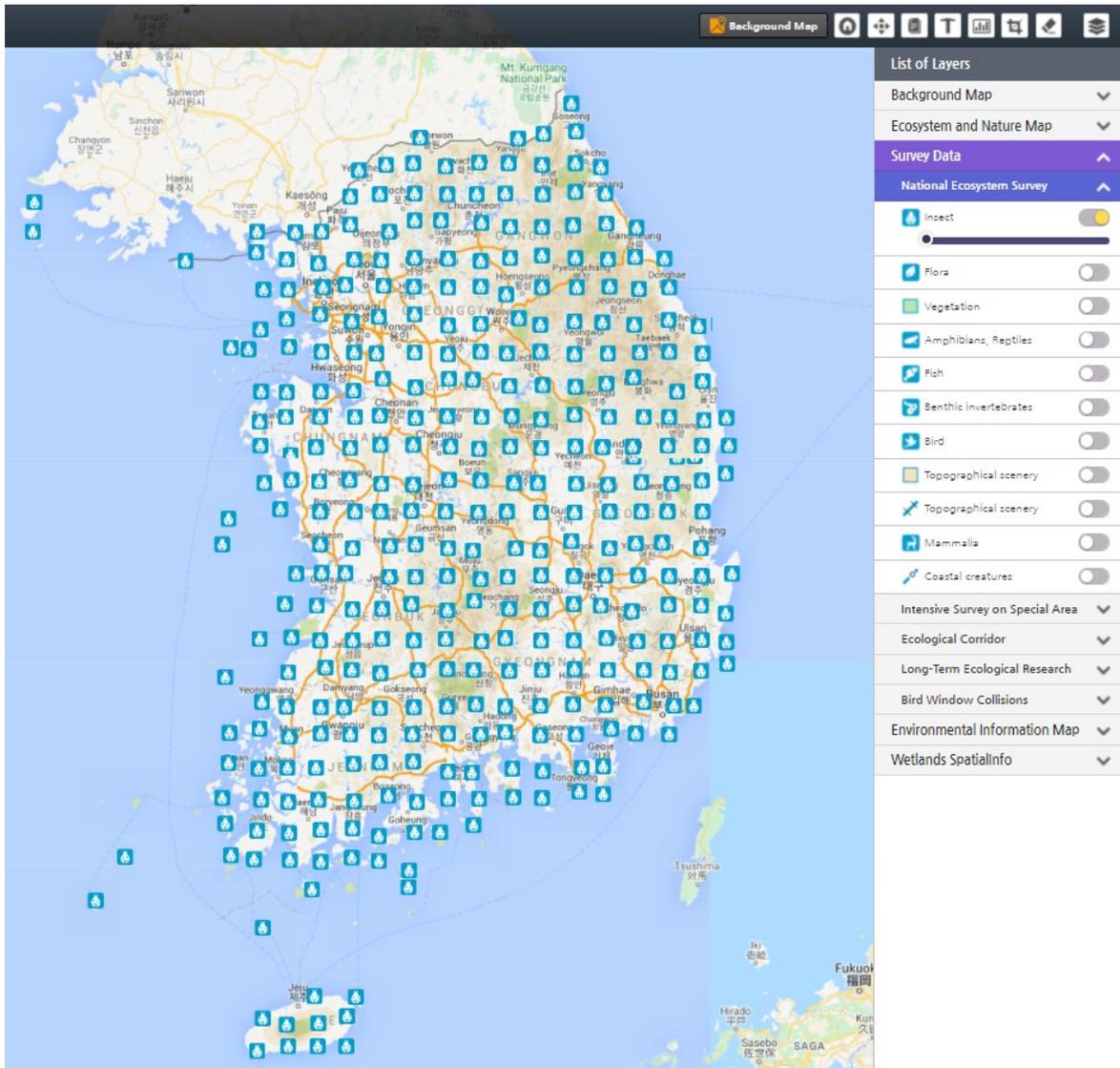
Hyun Woo Kim\*, Sungsoo Yoon\*\*, Mokyoung Kim\*\*, Manseok Shin\*\*, Heenam Yoon\*\*\*,  
Kidong Kim\*\*\*\*

## **Figures**

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21 Fig. 1. Spatial distributions of insects in South Korea presented by WebGIS in EcoBank. Diverse WebGIS tools such  
 22 as Geoserver, OpenLayers, PostGIS, and PostgreSQL are successfully integrated into EcoBank.

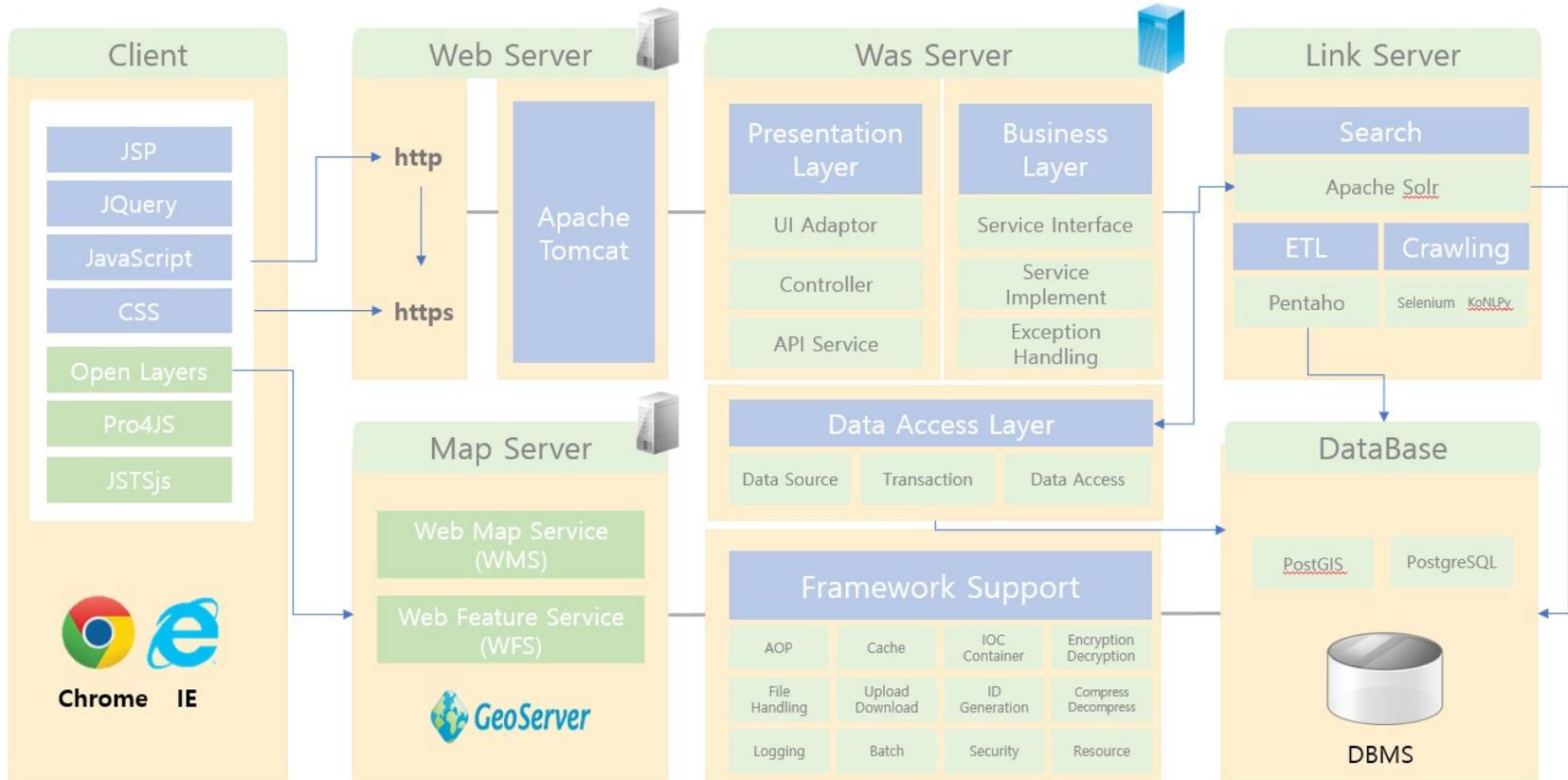
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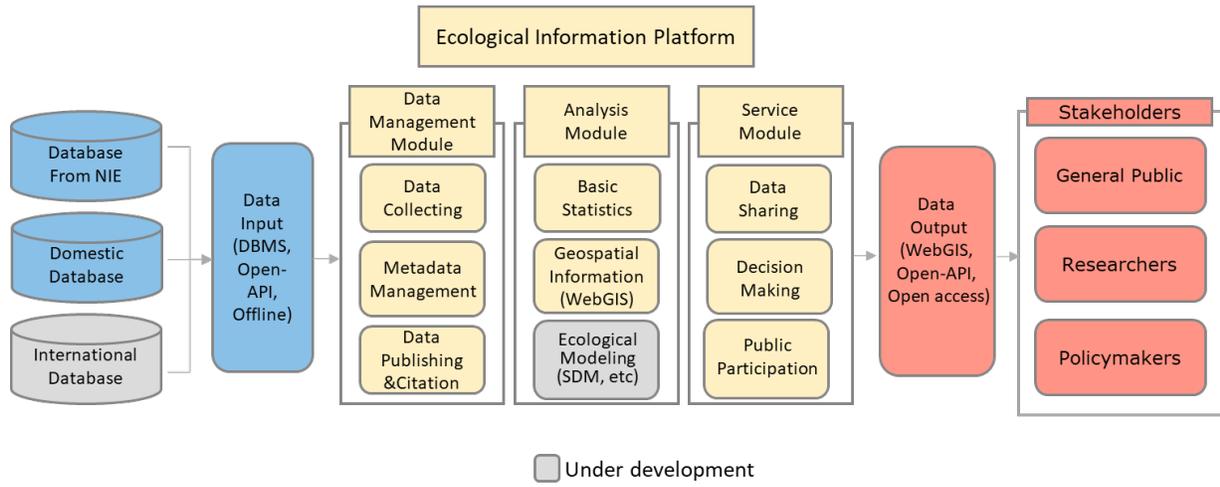
24 Fig. 2. Software packages used in the system architecture of EcoBank. Almost all these packages are open-source-based.

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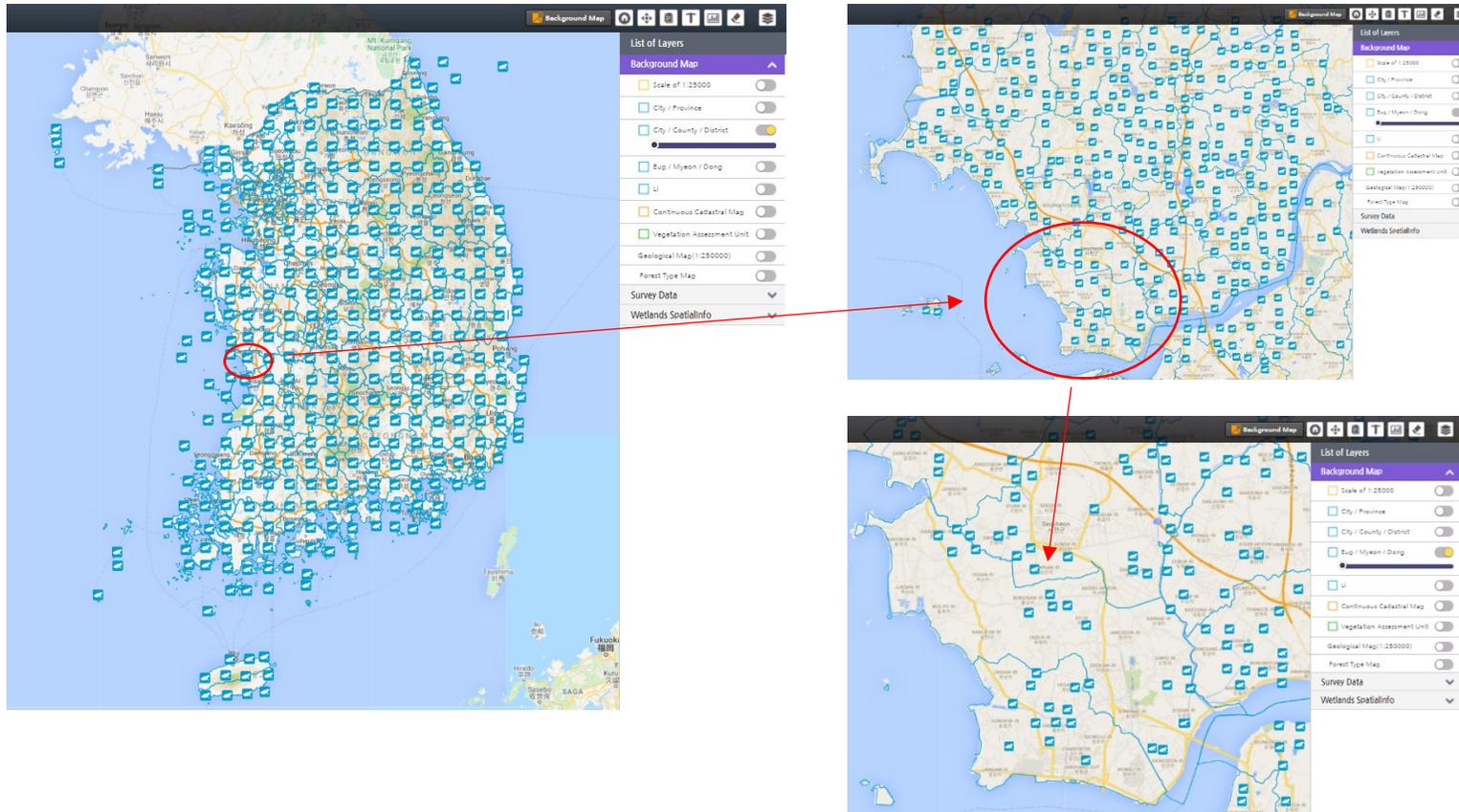
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Fig. 3. Conceptual Architecture and data management flow in EcoBank.

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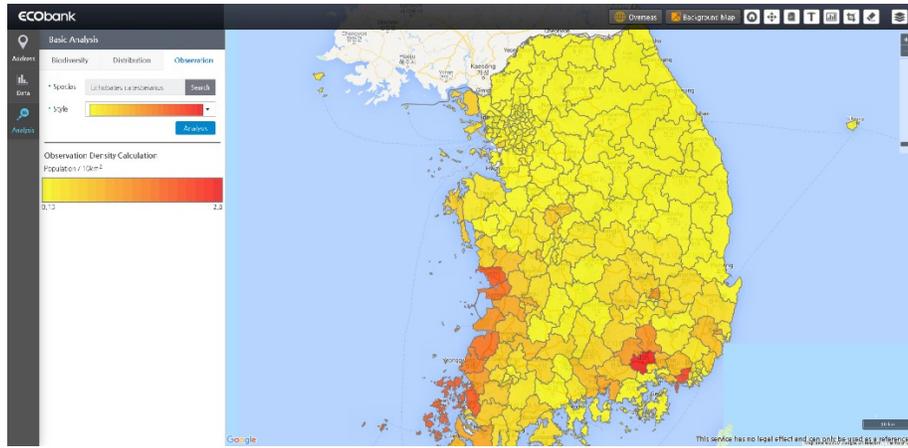
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Fig. 4. Distribution of herpetile species in Korea. EcoBank supports this type of multi-scale approaches for researchers.

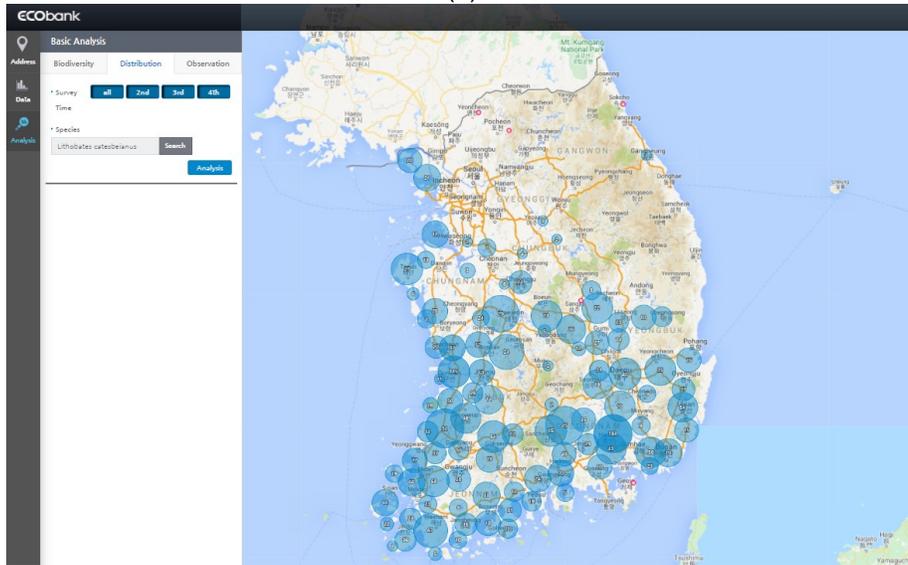
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(a)



(b)

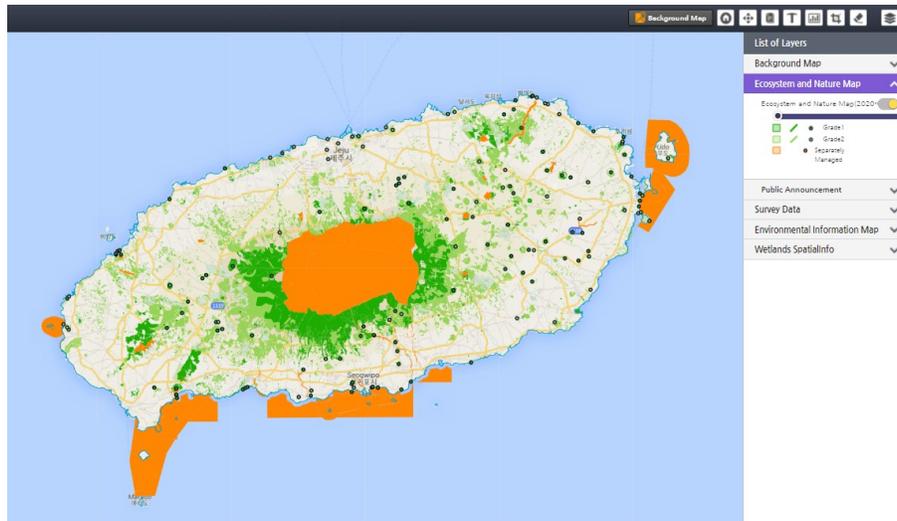
Fig. 5. Observation density and species distribution of American bullfrog (*Lithobates catesbeianus*) for policy makers. (a) Observation density, (b) Species distribution.

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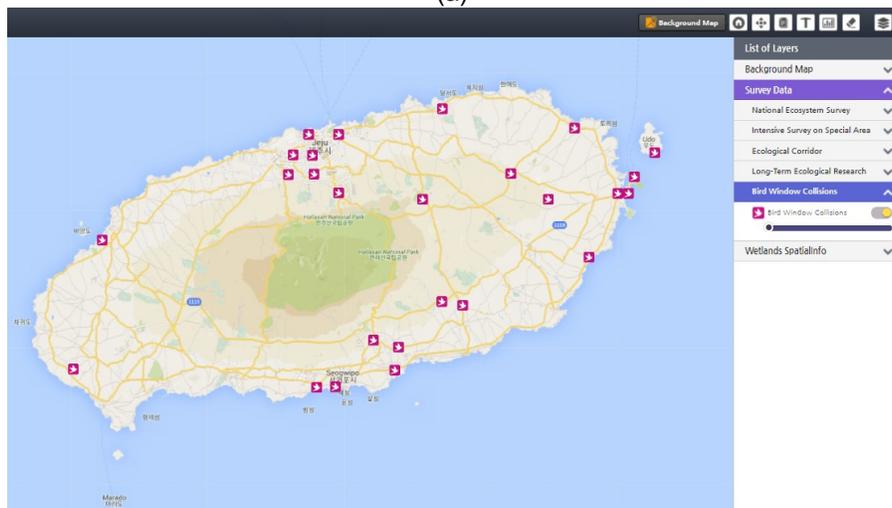
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(a)

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(b)

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59 Fig. 6. EcoBank for public users. (a) Ecology and Nature Map, and (b) Bird window collision data in Jeju Island for

60 citizen scientists.

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