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### Digital Earth for Sustainable Development Goals

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### **Abstract**

Sustainable development is nothing new, but it has proven notoriously difficult to implement in practice. The 2030 Agenda for Sustainable Development, with 17 goals, 169 targets and 232 associated indicators, was approved at the 2015 UN General Assembly and addresses the economic, social and environmental pillars of development, aspiring to attain by 2030 a sustainable future that balances equitable prosperity within planetary boundaries. While the goals are universal (i.e., applicable to both developing and developed countries), it is left to individual countries to establish national Sustainable Development Goal (SDG) targets according to their own priorities and level of ambition in terms of the scale and pace of transformation aspired to.



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Keywords

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Information and Knowledge Relevant to N

State of the Art for the SDGs in DE

Case Study of Australia: Operationalizing

Big Earth Data for the SDG: Prospects

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Acknowledgements

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**Editor information** 

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### Manual of Digital Earth

Chapter 13 Digital Earth for Sustainable Development Goals



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ISDE Digital Earth



Abstract Sustainable development is nothing new, but it has proven notoriously difficult to implement in practice. The 2030 Agenda for Sustainable Development, with 17 goals, 169 targets and 232 associated indicators, was approved at the 2015 UN General Assembly and addresses the economic, social and environmental pillars of development, aspiring to attain by 2030 a sustainable future that balances equitable prosperity within planetary boundaries. While the goals are universal (i.e., applicable to both developing and developed countries), it is left to individual countries to establish national Sustainable Development Goal (SDG) targets according to their own priorities and level of ambition in terms of the scale and pace of transformation aspired to.





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Learning





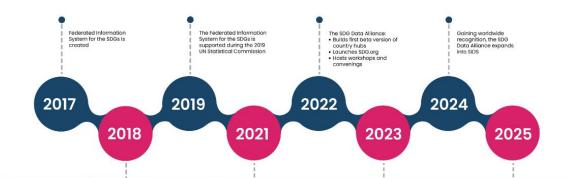
The SDG Data Alliance was launched at the United Nations High-level Political Forum on Sustainable Development in July 2021, but several years before its launch, the United Nations Statistics Division (UNSD) in conjunction with PVBLIC Foundation, Esri and the governments of six pilot countries laid the foundation for the project.

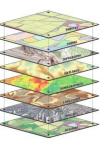
### SDG DATA ALLIANCE HISTORY

### **SDG DATA ALLIANCE TODAY**

Today, the SDG Data Alliance has evolved to become an open, community-driven, multi-stakeholder partnership bringing geographic information systems, or GIS, technology and capabilities to developing nations around the world.

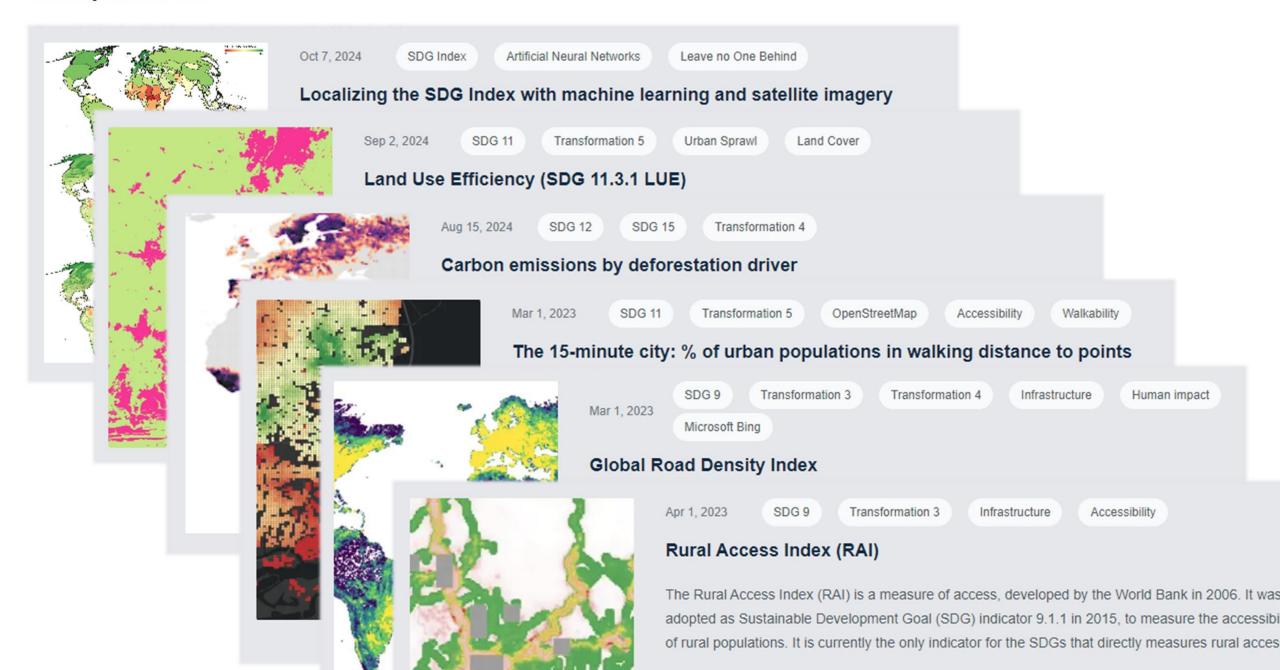








### **Geospatial Data**





### SDG and Big (Earth) Data





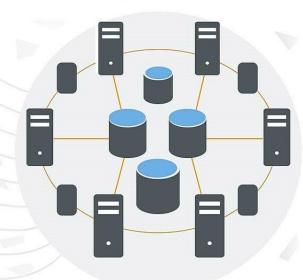
### **BIG DATA**

### **SMART DATA**

DATENQUELLEN



DATENMANAGEMENT



"Distributed Systems"

DATENANALYSE



"Machine Learning"

DATENNUTZUNG



"Human-Computer-Interaction"

"Internet (of Things)"

DATENSICHERHEIT

DATENSOUVERÄNITÄT



## WHERE - TO NEXT

### Open Science



# Citizen Science & Participation



# from Big Data to Smart Insights



#### Data

Understand the current situation



### Insight

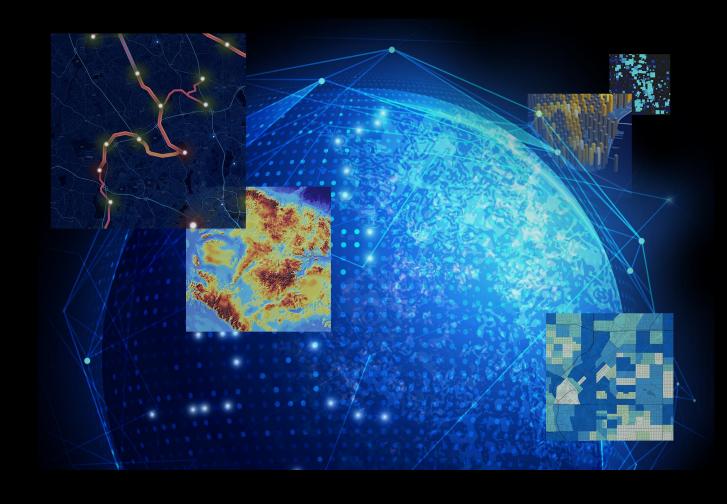
Make sense of data and highlight where to target action



#### Action

Move from data-driven insight to targeted action to deliver impactful change

# Portals: Communities & Monitoring



### Geospatial Competences

