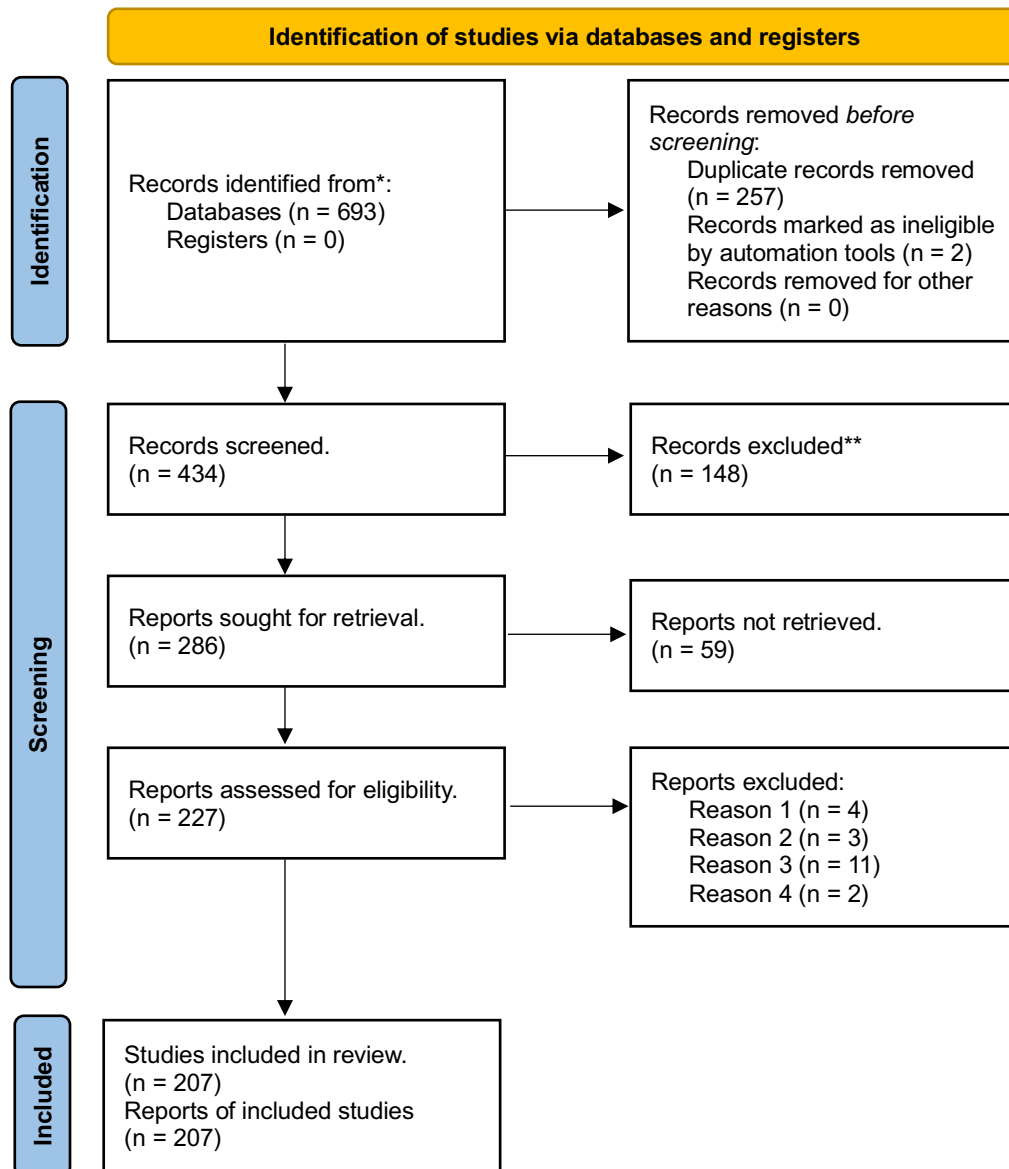


Supplementary file 1: PRISMA chart and attrition



Supplementary file 2: Search strategy

Naïve Search

((("Artificial Intelligence" OR "Machine Learning" OR "Deep Learning" OR "Artificial Neural Network" OR "NLP" OR "Natural Language Processing" OR "Smart Algorithm*" OR "Data-Driven Approach*" OR "Adaptive System*" OR "Reinforcement Learning" OR "Recommender System*" OR "Interactive Visualisation*" OR "Simulation Intelligence" OR "Scenario Analysis" OR "Scenario Modelling" OR "Fuzzy Logic" OR "Genetic Algorithm*" OR "Intelligent Agent*" OR "Knowledge Representation" OR "Cellular Automata" OR "Supervised Learning" OR "Unsupervised Learning") AND ("Public Polic*" OR Polic* OR Decision* OR "Policy Making" OR "Decision Making" OR "Decision-Making" OR Govern*)) AND ("Sustainable Development" OR SDG* OR "Sustainable Development Goal*" OR "Economic Development" OR "Social Development" OR "Human Development" OR "National Development") AND ("Public Planning" OR "Public Budgeting" OR "Public Resource Allocation" OR "Sustainable Development Planning" OR "Planning" OR "Budgeting"))

1. Proquest Database

abstract(("Artificial Intelligence" OR "Machine Learning" OR "Deep Learning" OR "Artificial Neural Network" OR "NLP" OR "Natural Language Processing" OR "Smart Algorithm*" OR "Data-Driven Approach*" OR "Adaptive System*" OR "Reinforcement Learning" OR "Recommender System*" OR "Interactive Visualisation*" OR "Simulation Intelligence" OR "Scenario Analysis" OR "Scenario Modelling" OR "Fuzzy Logic" OR "Genetic Algorithm*" OR "Intelligent Agent*" OR "Knowledge Representation" OR "cellular automata" OR "Supervised Learning" OR "Unsupervised Learning")) AND abstract(("Public Polic*" OR Polic* OR Decision* OR "Policy Making" OR "Decision Making" OR "Decision-Making" OR Govern*)) AND abstract(("Sustainable Development" OR SDG* OR "Sustainable Development Goal*" OR "Economic Development" OR "Social Development" OR "Human Development" OR "National Development")) AND abstract(("Public Planning" OR "Public Budgeting" OR "Public Resource Allocation" OR "Sustainable Development Planning" OR "Planning" OR "Budgeting"))

+ English language filter + Peer reviewed

2. Scopus Database

ABS (("Artificial Intelligence" OR "Machine Learning" OR "Deep Learning" OR "Artificial Neural Network" OR "NLP" OR "Natural Language Processing" OR "Smart Algorithm*" OR "Data-Driven Approach*" OR "Adaptive System*" OR "Reinforcement Learning" OR "Recommender System*" OR "Interactive Visualisation*" OR "Simulation Intelligence" OR "Scenario Analysis" OR "Scenario Modelling" OR "Fuzzy Logic" OR "Genetic Algorithm*" OR "Intelligent Agent*" OR "Knowledge Representation" OR "Cellular Automata" OR "Supervised Learning" OR

"Unsupervised Learning") AND ("Public Polic*" OR polic* OR decision* OR "Policy Making" OR "Decision Making" OR "Decision-Making" OR govern*) AND ("Sustainable Development" OR sdg* OR "Sustainable Development Goal*" OR "Economic Development" OR "Social Development" OR "Human Development" OR "National Development") AND ("Public Planning" OR "Public Budgeting" OR "Public Resource Allocation" OR "Sustainable Development Planning" OR "Planning" OR "Budgeting")) AND PUBYEAR > 2013

+ English language filter

3. Web of Science Database

AB=("Artificial Intelligence" OR "Machine Learning" OR "Deep Learning" OR "Artificial Neural Network" OR "NLP" OR "Natural Language Processing" OR "Smart Algorithm*" OR "Data-Driven Approach*" OR "Adaptive System*" OR "Reinforcement Learning" OR "Recommender System*" OR "Interactive Visualisation*" OR "Simulation Intelligence" OR "Scenario Analysis" OR "Scenario Modelling" OR "Fuzzy System*" OR "Genetic Algorithm*" OR "Intelligent Agent*" OR "Knowledge Representation" OR "Supervised Learning" OR "Unsupervised Learning") AND ("Public Polic*" OR Polic* OR Decision* OR "Policy Making" OR "Decision Making" OR "Decision-Making" OR Govern*) AND ("Sustainable Development" OR SDG* OR "Sustainable Development Goal*" OR "Economic Development" OR "Social Development" OR "Human Development" OR "National Development") AND ("Public Planning" OR "Public Budgeting" OR "Public Resource Allocation" OR "Sustainable Development Planning" OR "Planning" OR "Budgeting"))

+ English language filter

4. ACM Digital Library Database

[[Abstract: "artificial intelligence"] OR [Abstract: "machine learning"] OR [Abstract: "deep learning"] OR [Abstract: "artificial neural network"] OR [Abstract: "nlp"] OR [Abstract: "natural language processing"] OR [Abstract: "smart algorithm*"] OR [Abstract: "data-driven approach*"] OR [Abstract: "adaptive system*"] OR [Abstract: "reinforcement learning"] OR [Abstract: "recommender system*"] OR [Abstract: "interactive visualisation*"] OR [Abstract: "simulation intelligence"] OR [Abstract: "scenario analysis"] OR [Abstract: "scenario modelling"] OR [Abstract: "fuzzy system*"] OR [Abstract: "genetic algorithm*"] OR [Abstract: "intelligent agent*"] OR [Abstract: "knowledge representation"] OR [Abstract: "supervised learning"] OR [Abstract: "unsupervised learning"]] AND [[Abstract: "public polic*" OR [Abstract: polic*] OR [Abstract: decision*] OR [Abstract: "policy making"] OR [Abstract: "decision making"] OR [Abstract: "decision-making"] OR [Abstract: govern*]] AND [[Abstract: "sustainable development"] OR [Abstract: sdg*] OR [Abstract: "sustainable development goal*"] OR [Abstract: "economic development"] OR [Abstract: "social development"] OR [Abstract: "human development"] OR [Abstract:

"national development"] AND [[Abstract: "public planning"] OR [Abstract: "public budgeting"] OR [Abstract: "public resource allocation"] OR [Abstract: "sustainable development planning"] OR [Abstract: "planning"] OR [Abstract: "budgeting"]] AND [E-Publication Date: (01/01/2013 TO 31/07/2023)]

+ English language filter

Generated terms using the R package Litsearchr

((("artificial intelligence" OR "artificial neural" OR "cellular automata" OR "fuzzy logic" OR "genetic algorithm" OR "learning approach" OR "machine learning" OR "neural network" OR "scenario analysis" OR "component analysis" OR "gradient boosting" OR "learning algorithm" OR "learning techniques" OR "linear regression" OR "markov chain" OR "principal component" OR "random forest" OR "vector machine") AND ("sustainable development" OR "development goals" OR "development planning" OR "development policies" OR "development scenario" OR "economic development" OR "economic growth" OR "socio-economic development" OR "social development") AND ("strategic planning" OR planning OR budgeting OR "resource allocation") AND ("planning policies" OR polic* OR decision*))

Inclusion and Exclusion Criteria

Inclusion criteria:

1. All studies must clearly discuss artificial intelligence methods that specifically address development planning related area, including AI for budgeting or financial purposes.
2. All types of study design and methodologies (quantitative, qualitative, mixed-method, other literature reviews, case studies, case reports, perspectives, and position papers).
3. All peer-reviewed articles, chapters, conference papers available in English from databases with permitted records.

Exclusion criteria:

1. Study that does not apply or have clear implementation of AI or smart algorithms in their study.
2. Study that discusses planning in terms of AI Algorithms or methods such as Robot Path Planning and Model Planning.
3. Study that has unclear planning background or purposes in development context, for example: production planning, manufacturing plan, production plan, and individual planning or budgeting.
4. Study that discusses development planning outside the public domain.

Supplementary file 3: List of studies used for the analysis of this study

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Supplementary file 4: Analysis of geographical distribution of the cases by countries and continents

Frequency by Countries

Country name	Frequency	Publication ¹	Percentage (%)
Algeria	1	89081	0.00112
Australia	1	1234177	0.00008
Bangladesh	2	89133	0.00224
Benin	1	7199	0.01389
Brazil	2	936550	0.00021
Canada	1	1327326	0.00008
China	73	7663705	0.00095
Colombia	1	150278	0.00067
Cyprus	1	38315	0.00261
Denmark	1	346365	0.00029
Ecuador	1	47504	0.00211
Egypt	2	297178	0.00067
Ethiopia	2	59045	0.00339
Finland	1	256328	0.00039
Germany	3	2159475	0.00014
Guyana	1	NA	NA
India	11	2196235	0.0005
Iran	9	680048	0.00132
Ireland	1	193143	0.00052
Italy	4	1479687	0.00027
Japan	1	1533671	0.00007
Kenya	1	44015	0.00227
Kuwait	1	25073	0.00399
Malawi	1	9947	0.01005
Malaysia	3	397856	0.00075
Mexico	5	304294	0.00164
Morocco	2	93820	0.00213
Mozambique	1	6084	0.01644
Netherlands	1	744635	0.00013
Nigeria	4	129560	0.00309
Pakistan	3	268907	0.00112
Palestine	1	12322	0.00812
Papua New Guinea	1	2541	0.03935
Poland	4	585837	0.00068

¹ The variable **Publication** refers to the total number of scientific documents indexed in **Scopus** between 2013 and 2023.

Country name	Frequency	Publication ¹	Percentage (%)
Portugal	1	333877	0.0003
Qatar	1	50314	0.00199
Romania	1	194634	0.00051
Russian Federation	2	1100874	0.00018
Rwanda	1	7233	0.01383
Saudi Arabia	1	359821	0.00028
Singapore	2	268346	0.00075
South Africa	1	308529	0.00032
South Korea	1	1000997	0.0001
Spain	1	1173342	0.00009
Sri Lanka	1	30411	0.00329
Sweden	1	503824	0.0002
Thailand	5	217601	0.0023
Togo	1	2571	0.0389
Turkey	3	600733	0.0005
Uganda	2	24631	0.00812
United Arab Emirates	2	104276	0.00192
United Kingdom	2	2553291	0.00008
United States	4	8079583	0.00005
Vietnam	3	122283	0.00245

Proportion of articles by Continents

Continent	Frequency	Publication	Number of Countries	Proportion
North America	10	9711203	3	0.000103
Oceania	2	1236718	2	0.000162
Europe	23	11625312	13	0.000198
South America	5	1134332	4	0.000441
Asia	124	15660047	19	0.000792
Africa	20	1078893	13	0.001854

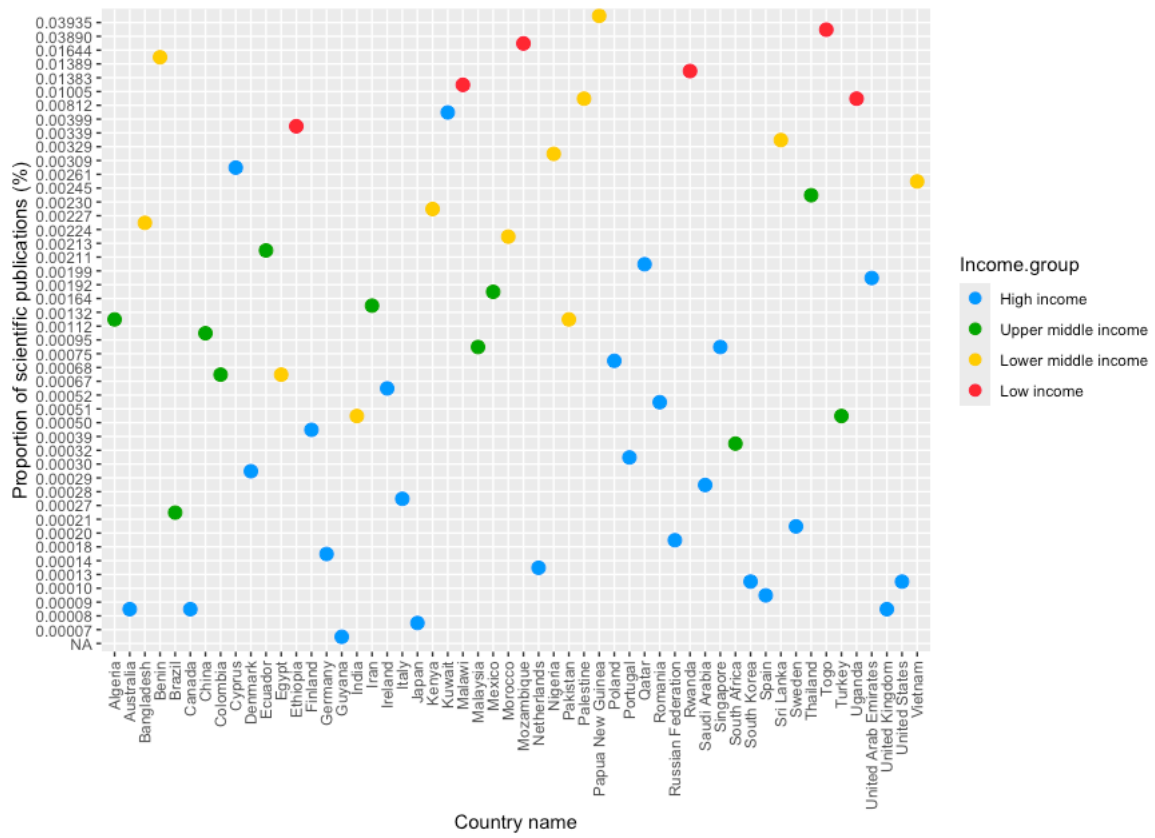
Frequency by Continents / Subcontinents / Regions

Continent / Region	Frequency
Asia	124
Eastern Asia	74
Southern Asia	26
Western Asia	10
South-Eastern Asia	13
Africa	20
Eastern Africa	8
Northern Africa	5
Middle Africa	0
Western Africa	6
Southern Africa	1
Europe	23
Southern Europe	6
Western Europe	4
Eastern Europe	7
Northern Europe	6
North America	10
Caribbean	0
Seven seas (open ocean)	0
Central America	5
Northern America	5
Oceania	2
Polynesia	0
Australia and New Zealand	1
Melanesia	1
Micronesia	0
South America	5
South America	5

Frequency by Continents / Subcontinents / Regions

Income Group	Article	Publication	Country	Proportion
High income	40	25647211	25	0.000156
Upper middle income	104	11396179	11	0.000913
Lower middle income	32	3293604	12	0.000972
Low income	8	109511	6	0.007305

Proportion of articles by Countries and Income Groups



Supplementary file 5: Distribution based on SDGs and Subjects

Cases by SDGs they supported

SDGs	Frequency	Percentage
SDG 1	3	1.48%
SDG 2	11	5.42%
SDG 3	14	6.90%
SDG 4	2	0.99%
SDG 5	1	0.49%
SDG 6	17	8.37%
SDG 7	25	12.32%
SDG 8	23	11.33%
SDG 9	6	2.96%
SDG 10	2	0.99%
SDG 11	97	47.78%
SDG 12	9	4.43%
SDG 13	15	7.39%
SDG 14	2	0.99%
SDG 15	37	18.23%
SDG 16	7	3.45%
SDG 17	1	0.49%

Cases by Subjects

Subjects	Frequency	Percentage
Environment	131	64.53%
Energy	21	10.34%
Forestry	2	0.99%
Health	10	4.93%
Transportation	13	6.40%
Poverty	1	0.49%
Agriculture	8	3.94%
Education	2	0.99%
Tourism	6	2.96%
Governance	9	4.43%
Marine	2	0.99%
Economy	21	10.34%
Migration	1	0.49%
Water	1	0.49%
Gender & Child	1	0.49%
Natural Disasters	1	0.49%
Mining	2	0.99%
Industry	2	0.99%

Supplementary file 6: Distribution by Terms in Planning Context

Planning context	Frequency
Urban Planning	82
Rural Planning	2
Energy Planning	21
Environmental Planning	20
Tourism Planning	4
Transportation Planning	12
Poverty Planning	1
Health Planning	8
Social Planning	1
Economic Planning	11
Land Use Planning	52
Agriculture Planning	7
Education Planning	2
Marine Planning	2
Water Planning	14
Waste Planning	1
Prehazard Planning	1
Mine Planning	2
Industrial Planning	1
Road Planning	2
Development Planning	8
Government Planning	1
National Planning	5
Regional Planning	4
Local Planning	1
Policy Planning	4