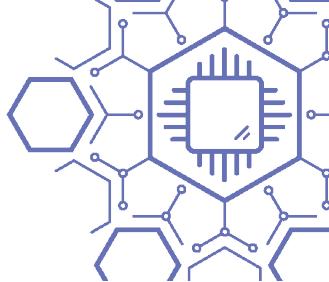


Spatial Intelligence in Urban planning & Development

PROMPT CARDS

Team 
Royaux

Benefits of Spatial Intelligence In Urban Planning



How does spatial intelligence contribute to creating green cities?

Prompts

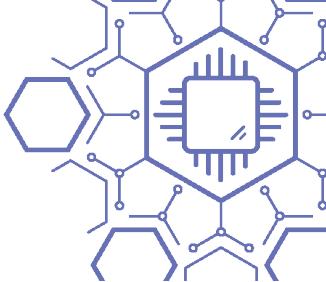
What benefits do green spaces bring to cities and how does spatial intelligence support this?

Explain how spatial intelligence helps identify suitable areas for parks and green spaces.

Example

By using spatial intelligence, planners can map areas with poor air quality and plan green spaces in these areas to improve residents' health

Benefits of Spatial Intelligence In Urban Planning



How does spatial intelligence improve city planning for a more organized urban layout?

Prompts

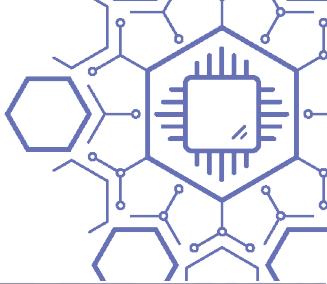
List some ways spatial intelligence can help organize city spaces.

Describe how spatial intelligence allows planners see where to place things like parks, homes, and schools.

Example

Spatial intelligence allows planners to understand traffic flow, helping them design roads and side walks that make moving around the city easier and safer.

Spatial Intelligence Tools



Which tools enhance spatial intelligence in urban planning?

Prompts

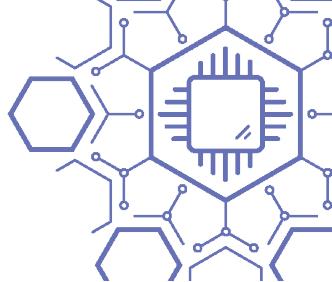
Describe the role of Geographic Information System (GIS) in urban planning

How does GIS support spatial analysis?

Example

Imagine a planner using GIS to analyze population density and infrastructure development

Spatial Intelligence Tools



Which tools enhance spatial intelligence in urban planning?

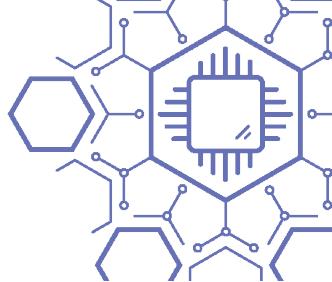
Prompt

How can augmented and virtual reality (AR/VR) tools improve spatial intelligence for planners?

Example

Think of an AR/VR simulation that shows projected growth in a neighbourhood

Spatial Intelligence Techniques



What techniques maximize the potential of spatial intelligence?

Prompt

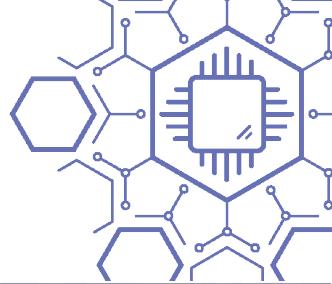
Describe how network analysis is used to optimize public transportation.

What spatial relationships are analyzed?

Example

Consider a city that uses heat mapping to analyze air pollution. How could this data inform transportation planning or green space allocation?

Spatial Intelligence Techniques



Which tools enhance spatial intelligence in urban planning?

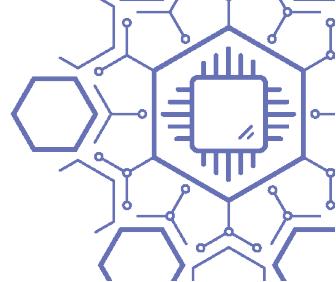
Prompt

Explain how heat mapping can inform decisions in urban planning

Example

Consider a city that uses heat mapping to analyze air pollution. How could this data inform transportation planning or green space allocation?

Spatial Intelligence Techniques



Which tools enhance spatial intelligence in urban planning?

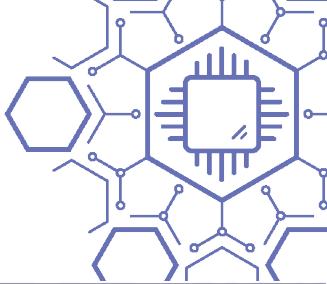
Prompt

How does predictive modelling help urban planners plan for the future.

Example

Predictive models can estimate how many people will live in a city in the next 10 years. Thus, planners are able to decide where to add new infrastructure.

Applications In Architecture



How does spatial intelligence help architects design that fit well into a city's layout?

Prompt

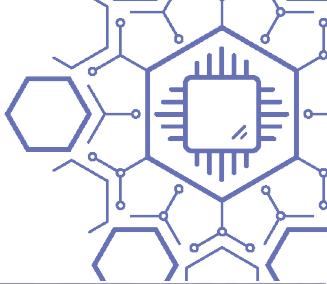
Describe how spatial intelligence tools, like 3D modelling, help architects.

How does understanding the city layout benefit building design?

Example

Architects use 3D models to see how a new building will look next to old ones, ensuring it matches the city's style and doesn't block sunlight.

Applications In Architecture



How does spatial intelligence help architects design energy-efficient buildings?

Prompt

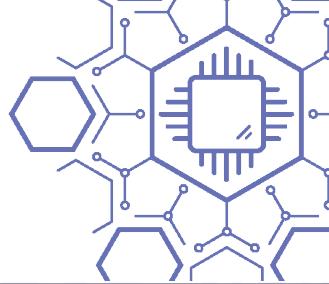
List some ways spatial intelligence support green building.

Explain why energy efficiency is important in urban areas.

Example

Spatial intelligence can show which part of a city get the most sun, helping architects place windows in ways that reduce energy use by maximizing natural light.

Applications In Engineering



How does spatial intelligence support smart cities and smart grids?

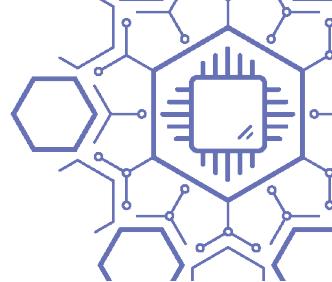
Prompt

What spatial factors need to be considered for efficient energy distribution?

Example

Think of a smart grid that uses spatial analysis to optimize energy supply across different neighborhoods

Applications In Engineering



How does spatial intelligence support planning and development?

Prompt

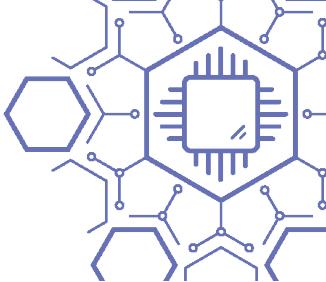
Discuss how spatial intelligence aids in infrastructure resilience planning.

Describe how engineers use spatial intelligence to allocate resources efficiently in urban areas.

Example

Imagine an engineer using spatial data to identify flood-prone areas for infrastructure placement.

Strategies For Teaching Spatial Intelligence



How can spatial intelligence be taught effectively in urban planning and development?

Prompt

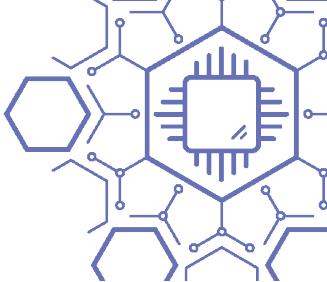
Describe how fieldwork enhances students' \spatial intelligence skills.

What should students observe during site visits?

Example

Consider a field trip to study urban accessibility. What features might students assess to improve their spatial reasoning?

Strategies For Teaching Spatial Intelligence



How can spatial intelligence be taught effectively in urban planning and development?

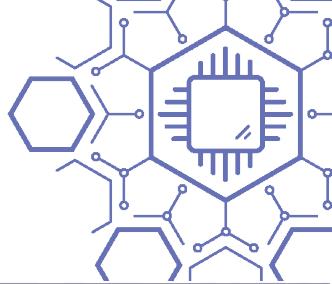
Prompt

How can augmented reality (AR) simulations benefit students learning urban design?

Example

Imagine students using AR to visualize different zoning options in a city. How would this tool enhance their understanding of spatial relationships.

Assessment Methods For Spatial Intelligence



Assessing spatial intelligence skills

Prompt

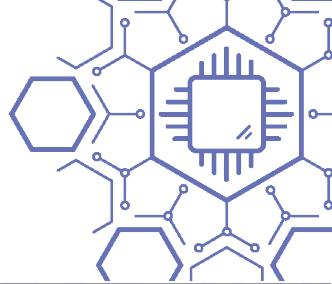
How can spatial mapping exercises assess spatial intelligence in urban planning?

Describe a mapping exercise that evaluates spatial intelligence.

Example

Students are given a task to map traffic flow in a neighborhood, which helps assess their ability to visualize and analyze movement in space

Assessment Methods For Spatial Intelligence



Assessing spatial intelligence skills

Prompt

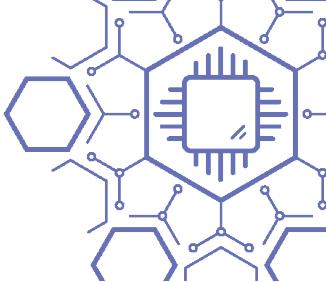
Describe how GIS mapping tasks can test spatial data analysis skills.

What competencies are measured?

Example

Imagine students mapping green spaces in an urban area. How would this task assess their understanding at spatial distribution.

Research Directions In Spatial Intelligence



What are emerging research areas in spatial intelligence?

Prompt

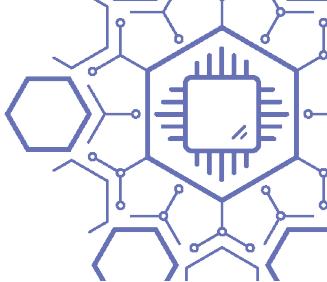
Discuss how spatial intelligence research could advance climate resilience in urban planning.

What aspects of resilience could benefit from spatial analysis?

Example

Think of a study on spatial intelligence helping planners adapt cities to sea-level rise. What specific data would be most valuable?

Research Directions In Spatial Intelligence



What are emerging research areas in spatial intelligence?

Prompt

Explain the importance of researching inclusivity in spatial intelligence.

How could this research improve urban inclusivity?

Example

Consider a research project focusing on inclusive urban design for people with disabilities (PWDs). What insights could spatial intelligence provide?