## APAN Landscape infrastructure for planning the sustainable coastal cities



Spatio-Temporal Analysis and Modeling for Sustainability of Andaman Coastal City and Forest

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## Landscape infrastructure for planning the sustainable coastal cities

## objectives

To study coastal urban pattern and process

## methodology

Landsat land cover classification by visual interpretation

### output

Ecological land classification map

To propose systematic landscape solutions for planning sustainable coastal cities Landscape ecological planning using patchcorridor-matrix model

**RESULT &** 

DISCUSSION

Landscape planning scenario and evalution

#### Keywords:

coastal city, landscape infrastructure, multifunctional landscape, patch-corridor-matrix model

NTRODUCTION

## **Methodology**



digitizing in ArcGIS software are used to classify land cover from Landsat 7 imagery. Satellite image obtained from USGS earth explorer platform are converted to land cover map with 3 different land classifications; cultural (built-up land), biotic (cultivated land and forest), and abiotic (water body)

Landscape component layer-cake model for inventorying cultural, biotic, and abiotic systems

REFERENCES

# Methodology

Then landscape ecological planning framework adapted from Ahern (1999) was used. The framework method are divided into 4 steps; landscape planning goals & assessment, planning strategies, landscape scenario, and evaluation of alternative scenarios.







less connectivity

within the metrix.

6

# Conclusion





# References

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