

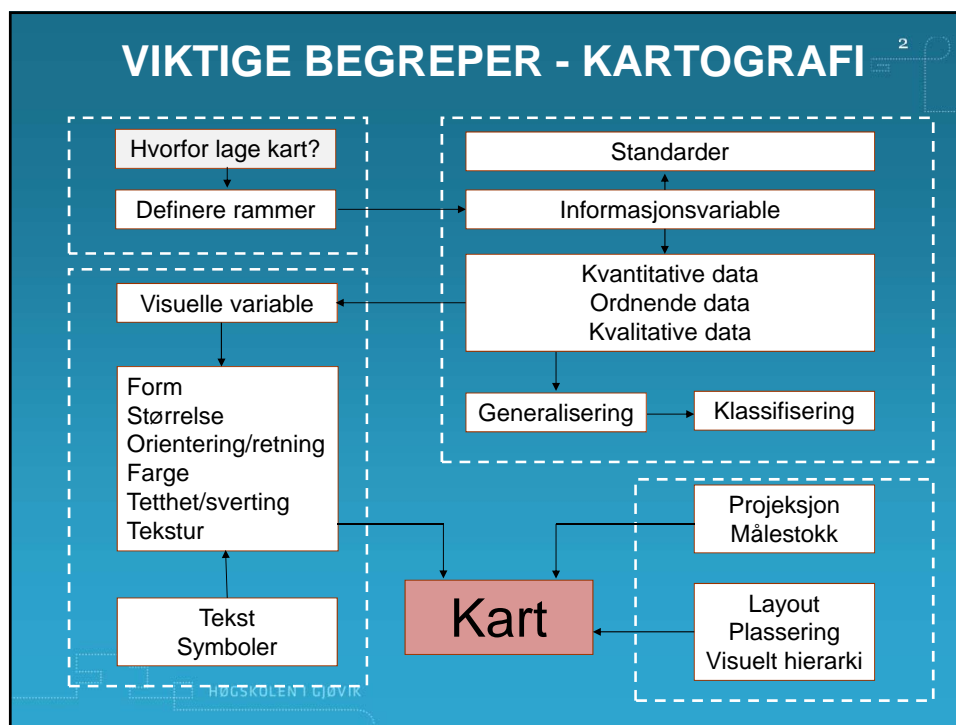
HØGSKOLEN I GJØVIK



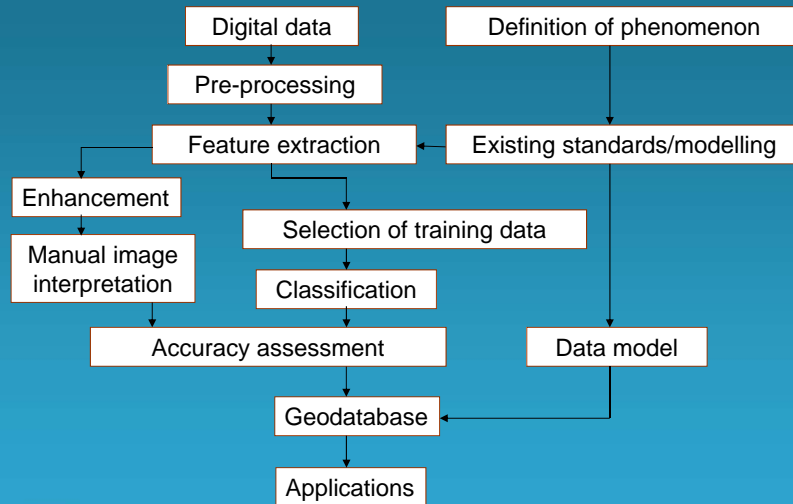
Geografisk Informasjonsbehandling

Hvordan skal jeg lage et kart? – prosjekt organisering

Rune Strand Ødegård



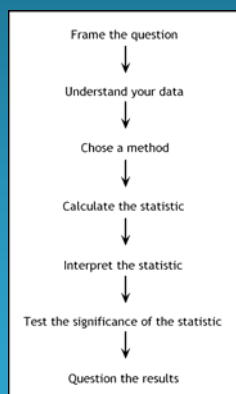
MAPPING PROCESS (DIGITAL DATA)



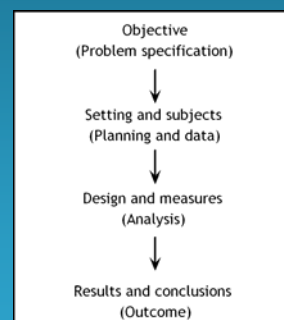
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ANALYTICAL METHODOLOGIES

Mitchell (2005)



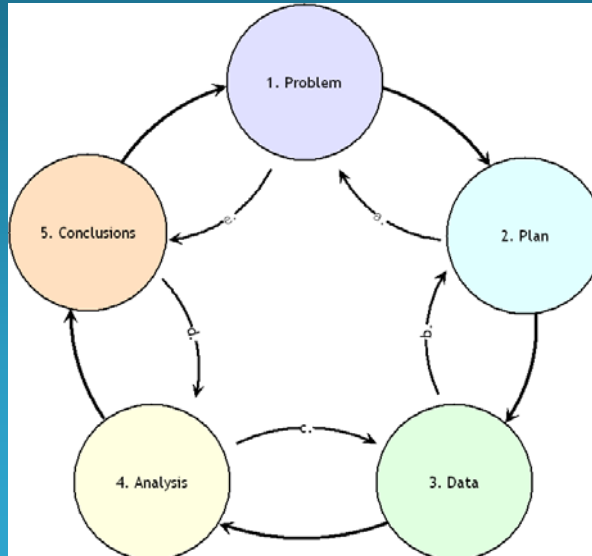
Draper et al (2005)

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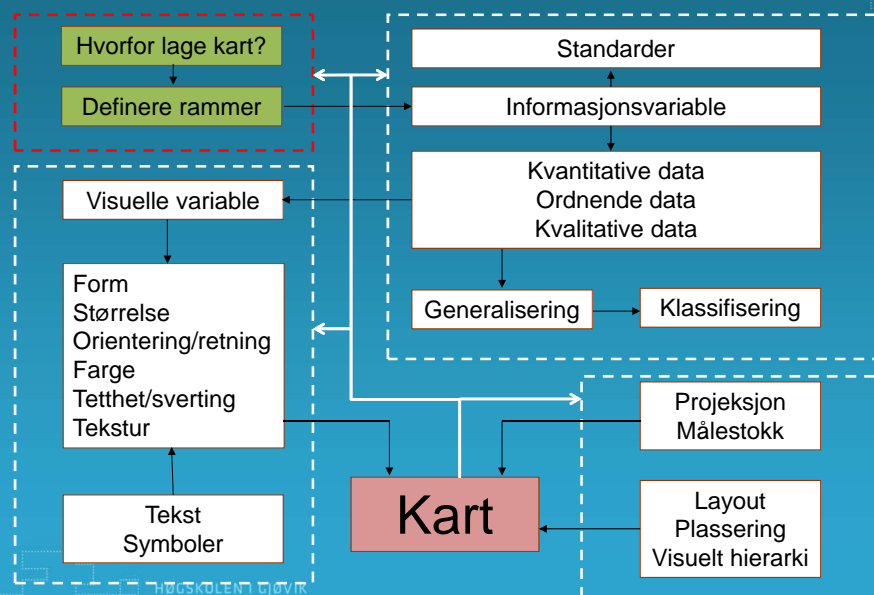
ANALYTICAL METHODOLOGIES - PPDAC

After Mackay
& Oldford (2002)



VIKTIGE BEGREPER - KARTOGRAFI

6



PPDAC – PROBLEM PHASE

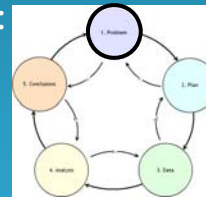
Problem definition

- Clear definition of problem/project and (client) expectations is paramount

Analysing existing information

Identification of specific spatial issues:

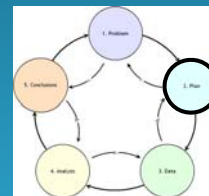
- spatial (and statistical) scale factors
- data availability and quality
- spatial grouping issues
 - *ecological fallacy, not representative sample*

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PPDAC – PLAN PHASE

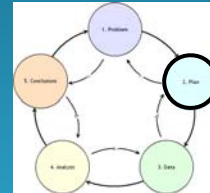
- Nature of project
- Costing requirements/Funding and resourcing
- Decision-support requirements
- Public participation issues (PPGIS)
- Operational requirements
- Timing and critical dates
- Feasibility and risk analysis
- Client expectations

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PPDAC – PLAN PHASE – CONT.

- Decide on specifications and standards
- Decide methods and tools
- Check data (subset)
- Testing/simulating the process flow
- Handling exceptions & rare events
- Re-examining the problem specification

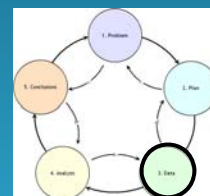
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PPDAC – DATA PHASE

Data quality & sourcing issues

- Quality
- Cost
- Licensing
- Availability
- Completeness & consistency
- Timeliness
- Detail/resolution etc.

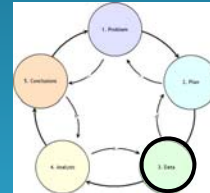
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PPDAC – DATA PHASE

Data quality & GIS tools – examples

- Missing data handling and masking
- Classification
- Data transformation
- Breakline handling
- Control of errors



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11

PPDAC – ANALYSIS PHASE

Simplicity and parsimony

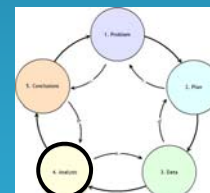
Exploratory analysis & visualisation

Interpretation of spatial patterns

Build-test-criticise

Developing preliminary conclusions

Match to expectations?



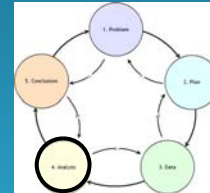
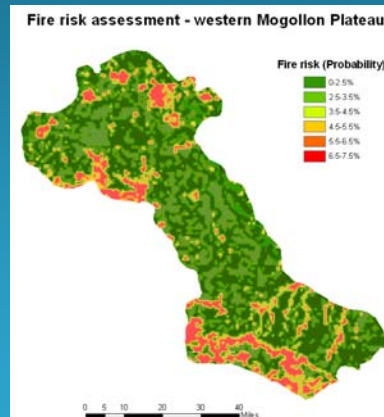
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12

PPDAC – ANALYSIS PHASE

Map output



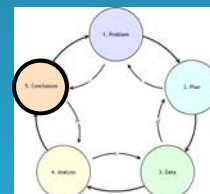
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PPDAC – CONCLUSION PHASE

Expectations on delivery met?
Simplicity again
Clear/high quality visualisation
Identify and report strengths, weaknesses and possible sources of error
Recommendations
Future actions



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14

PPDAC – FINAL COMMENTS

Work through and specify each model step before commencing – test out ideas
Identify risk areas and revisit PPDAC elements as required
Confirm overall programme and deliverables with 'client'/end-user

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15