

EVALUATING LOCAL GREEN INFRASTRUCTURE TRAINING AND EDUCATION APPROACHES WITHIN URBAN PLANNING CURRICULA

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PROBLEM STATEMENT AND RESEARCH QUESTIONS

- Evolvement of GI led to a wide variety of definitions
- Misunderstanding of GI among practitioners due to its multidisciplinary nature
- What is GI?
- To what extent is GI currently included in tertiary urban planning education?
- How can future education initiatives be adopted to ensure integration of GI within spatial planning modules?

CONTEXTUALISING GI within planning

ALL NATURAL AND MAN-MADE ECOLOGICAL SYSTEMS, WHICH INTEGRATE THE BUILT ENVIRONMENT AND ECOSYSTEM SERVICES WITH RESILIENT LANDSCAPES SUPPORTING ECOLOGICAL, ECONOMIC, AND HUMAN INTERESTS BY MAINTAINING AND PROMOTING CONNECTIVITY, WHILE IMPROVING THE QUALITY OF THE ENVIRONMENT

QUALITATIVE INVESTIGATION

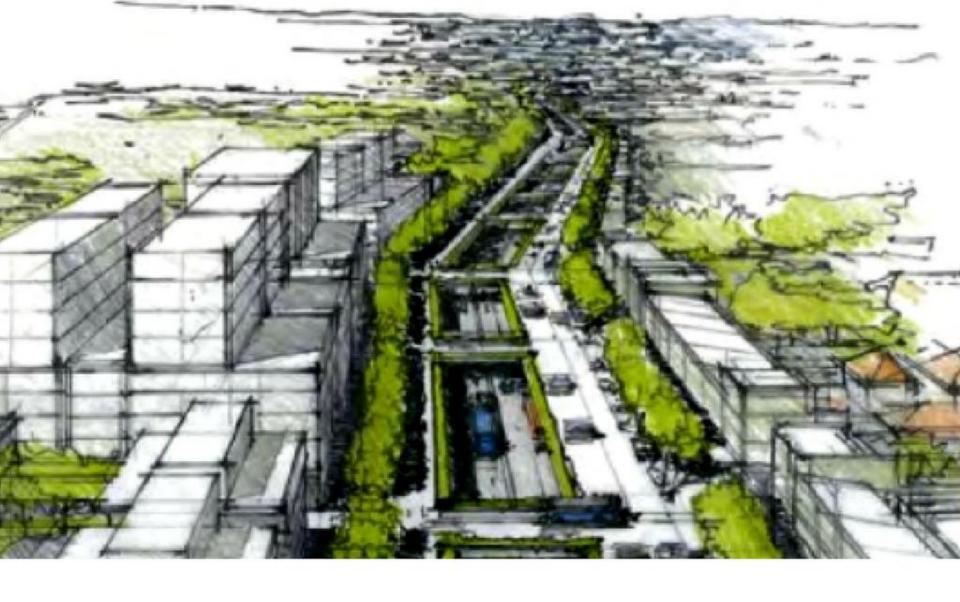
Evaluation of curricula

QUANTITATIVE INVESTIGATION

Questionnaires



EMPIRICAL INVESTIGATION



EVALUATION OF CURRICULA

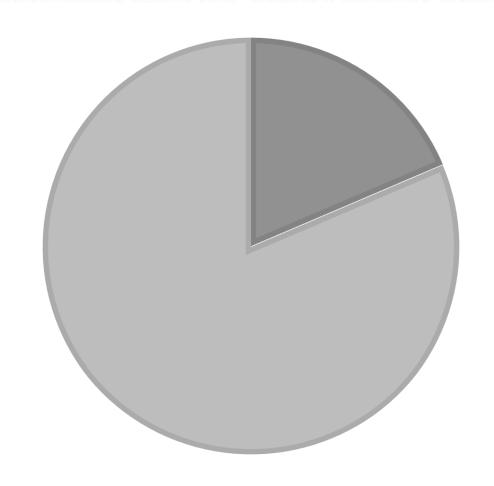


CRITERIA FOR EVALUATION

- Comparison of 3 SACPLAN accredited planning undergraduate qualifications
- NQF level 8
- 60 Modules evaluated
- GI inclusion determined by making use of SACPLAN's 'Environmental Management and Planning' competency as guideline
 - Natural systems
 - Environmental management and planning
 - Climate change
 - Sustainability



TOTAL PERCENTAGE OF MODULES INCLUDING GI



19% of modules include GI

81% of modules do not include GI



QUESTIONNAIRES



DISTRIBUTION OF QUESTIONNIARE

- Online questionnaire
- Compiled by making use of 'Sogosurvey'
- Anonymous
- 25 Questionnaires distributed among purposefully selected practicing planners
- 13 Completed questionnaires returned

STRUCTURE OF QUESTIONNIARE

- 14 Questions
- 3 Sections
 - Understanding of GI
 - Use of GI
 - GI education





DO YOU KNOW WHAT GI IS?

(QUESTION 1)



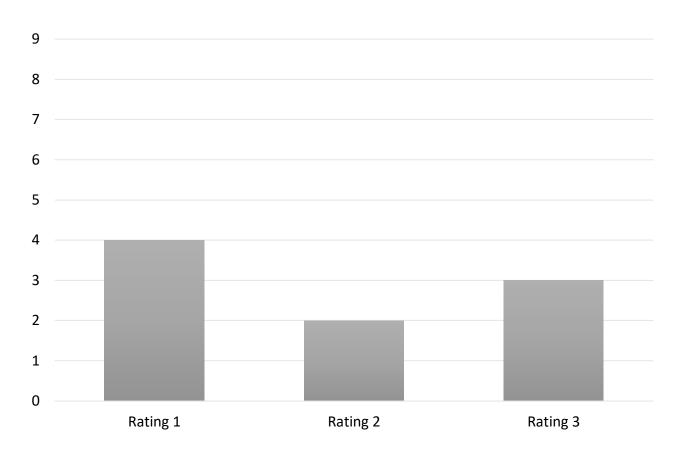
31% of respondents are unfamiliar with the concept

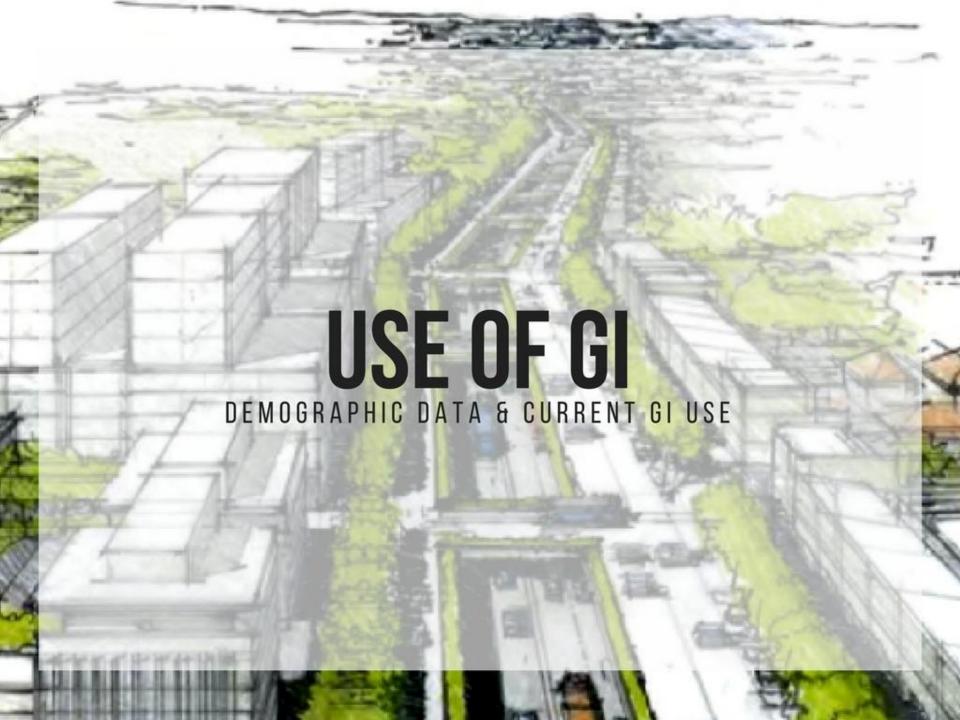
69% of respondents claim to have knowledge of GI



DEFINE GI TO THE BEST OF YOUR KNOWLEDGE?

(QUESTION 2)

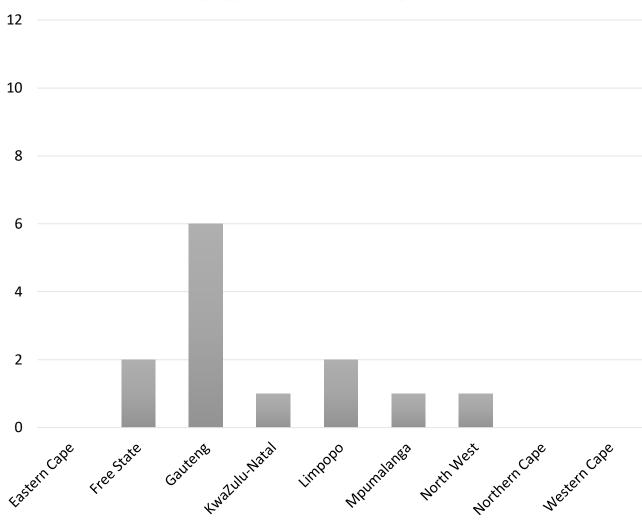






IN WHICH PROVINCE ARE YOU EMPLOYED?

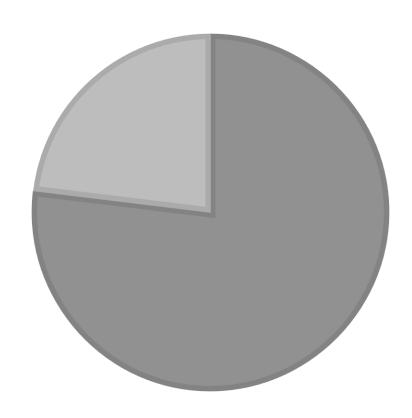
(QUESTION 3)





IN WHICH SECTOR ARE YOU EMPLOYED?

(QUESTION 4)



23%

of respondents are employed in the public sector

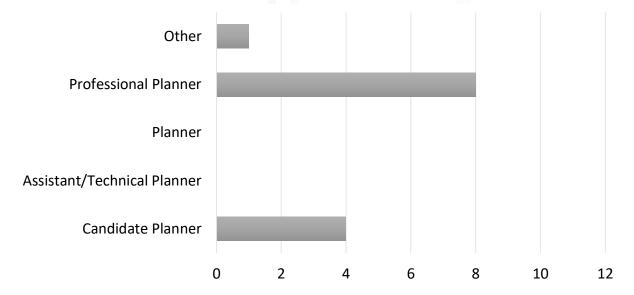
77%

of respondents are employed in the private sector



WHICH SACPLAN REGISTRATION APPLIES TO YOU?

(QUESTION 5)



8%

of respondents have no applicable registration 31%

of respondents are registered as Candidate Planners **61%**

of respondents are registered as Professional Planners



HOW MANY YEARS OF EXPERIENCE DO YOU HAVE?

(QUESTION 6)



39%

<4 years

8%

5-10 years

15%

11-15 years

15%

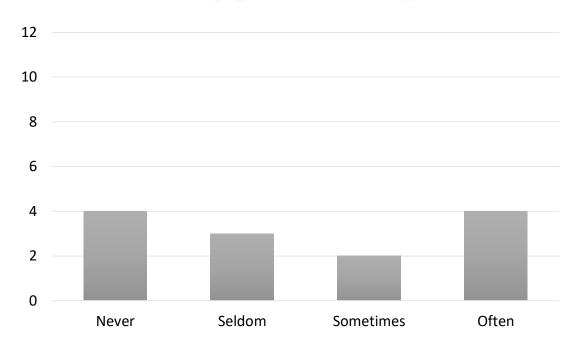
16-20 years

23% > 20 years



HOW OFTEN DO YOU MAKE USE OF GI?

(QUESTION 7)



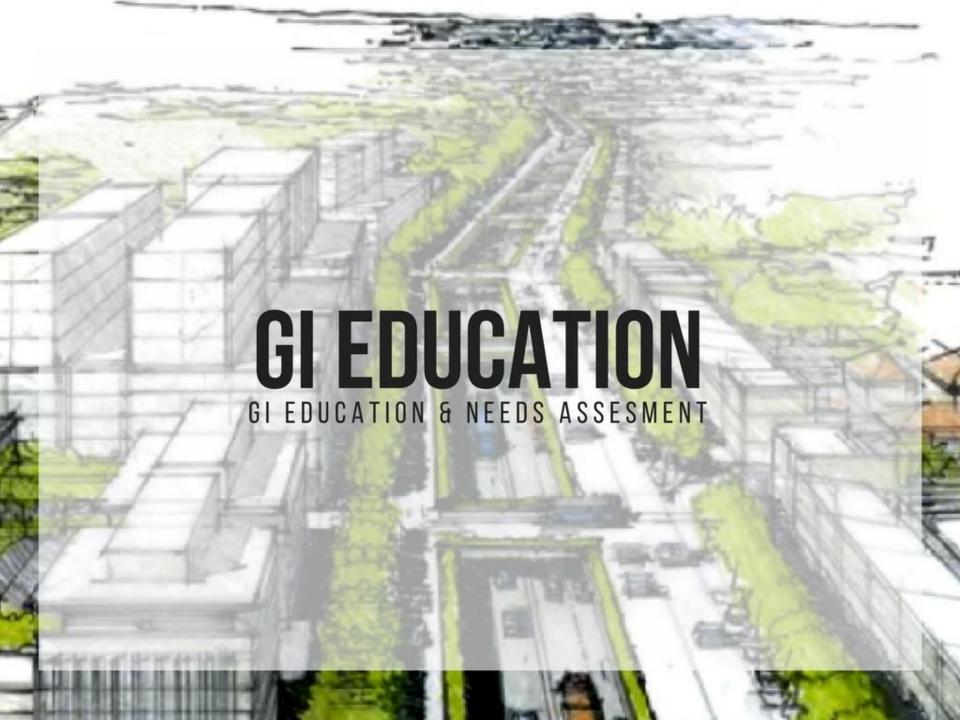
31%

of respondents never make use of GI **23**%

of respondents seldom make use of GI **15**%

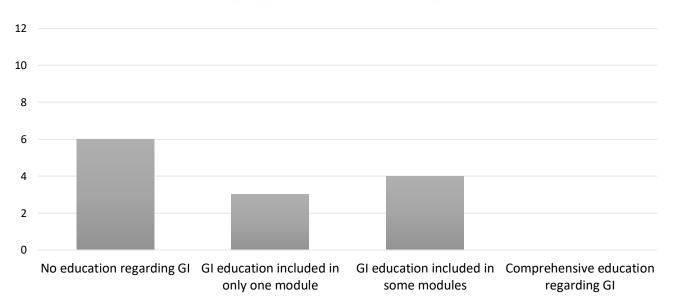
of respondents sometimes make use of GI 31%

of respondents often make use of GI



TO WHAT EXTENT WAS GI INCLUDED IN YOUR TERTIARY EDUCATION?

(QUESTION 8)



46%

received no GI education

23%

GI included in one module

31%

GI included in some modules

0%

comprehensive GI education

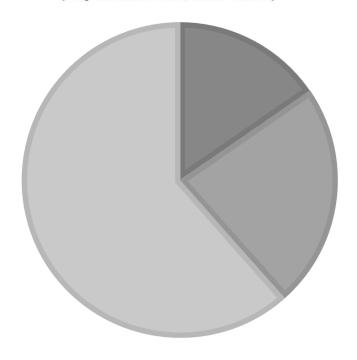
FROM WHICH INSTITUTION DID YOU GRADUATE?

(QUESTION 9)



IN WHICH YEAR DID YOU GRADUATE?

(QUESTION 10)



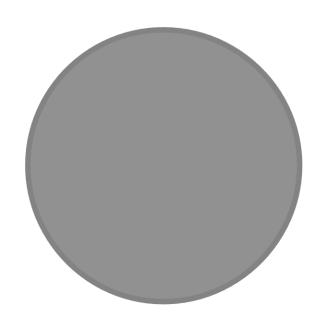
15% of respondents graduated before 1990 23%

of respondents graduated between 1990 and 2000 **62**%

of respondents graduated since 2001

DO YOU FEEL THERE IS AN NEED TO IMPROVE TERTIARY GI EDUCATION?

(QUESTION 11)



0%

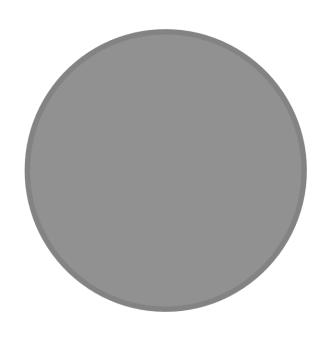
of respondents stated no improvement is neccesary

100%

of respondents stated that an improvement is neccesary

DO YOU FEEL THERE IS AN NEED TO EDUCATE PLANNERS TO IMPROVE THEIR KNOWLEDGE OF GI?

(QUESTION 12)



0%

of respondents stated no improvement is neccesary

100%

of respondents stated that an improvement is neccesary

CONCLUSIONS

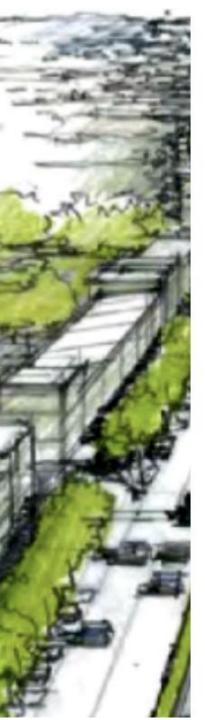
- Definition of GI in terms of planning
 - To date there is no consensus of what it entails in terms of planning.
- Extent of GI in tertiary planning education
 - Compulsory according to SACPLAN but lacking in current education approaches
- Perception of GI among planners
 - Incorrectly interpreted and undestood by planners



RECOMMENDATIONS

- Need for universal definition of GI in terms of planning
- Recognise the importance of multi-disciplinary education and training approaches for planners
 - Explore multi-disciplinary teaching-learning strategies
- Enhance the extent of GI inclusion in tertiary planning education
 - Integrate elements in GI in more modules
 - Comprehensive GI modules





THANK YOU

