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# FIG WORKING WEEK 2023

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New Frontiers

# Exploring Professional Rejuvenation for Land Surveying Theory and Praxis from a Critical Management Perspective

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University of Nigeria Enugu Campus

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## Exploring Professional Rejuvenation for Land Surveying Theory and Praxis from a Critical Management Perspective

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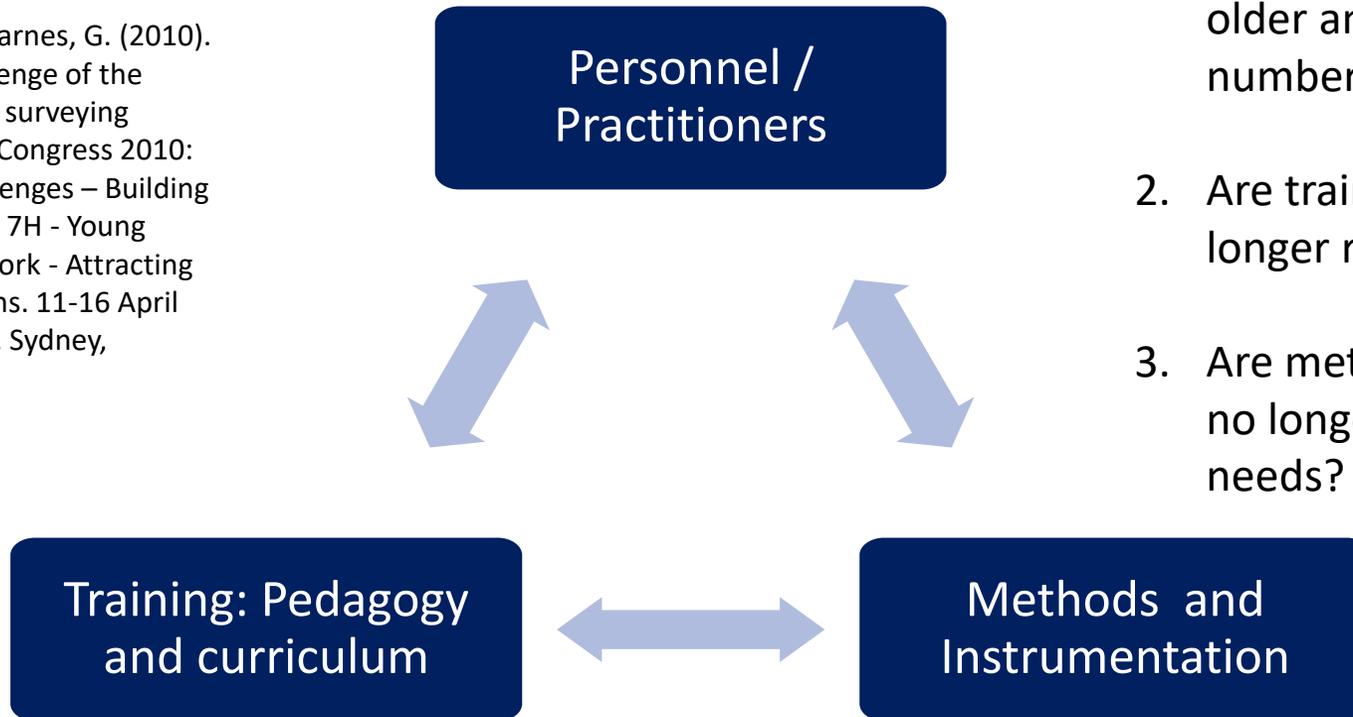
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## Presentation Outline

- Is land surveying really an ageing profession?
- Land surveying in light of emerging global challenges
- Post-structural analysis of the land surveying profession
  - *Historical perspectives*
  - *Underlying principles,*
  - *Pedagogical parameters*
- Conclusion, and study limitations

## 1. Is land surveying really an ageing profession?

Jeffress, G., & Barnes, G. (2010). Facing the challenge of the shrinking, aging surveying profession. FIG Congress 2010: Facing the Challenges – Building the Capacity. TS 7H - Young Surveyors Network - Attracting New Generations. 11-16 April 2010 (pp. 1-16). Sydney, Australia: FIG



1. Are the practitioners getting older and decreasing in number?
2. Are trainings outdated and no longer relevant?
3. Are methods and instruments no longer suitable for current needs?

## 1. Is land surveying really an ageing profession?

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Jeffery & Barnes (2010)

*Dealing with an ageing workforce: current and future implications.*

Dumay, & Rooney, (2011).

Coutts, & Strack, (2019).

*Is there still a (land) surveying profession?*

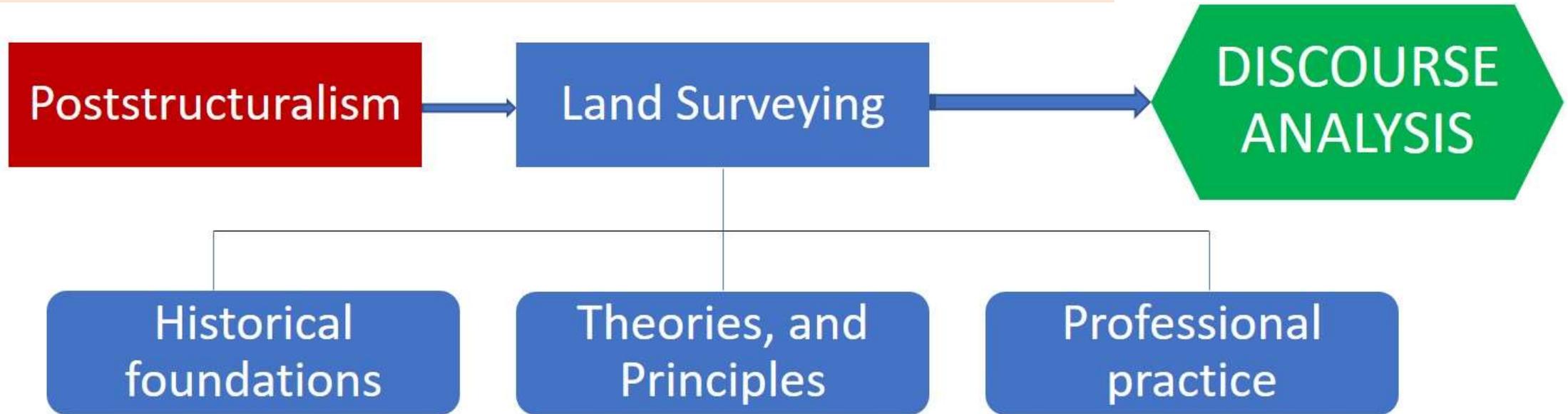
Admincivil (2022)

*Is land surveying a dying profession?*

## 2. Land Surveying in light of emerging global challenges



## 3. Post-structural analysis of the LS profession

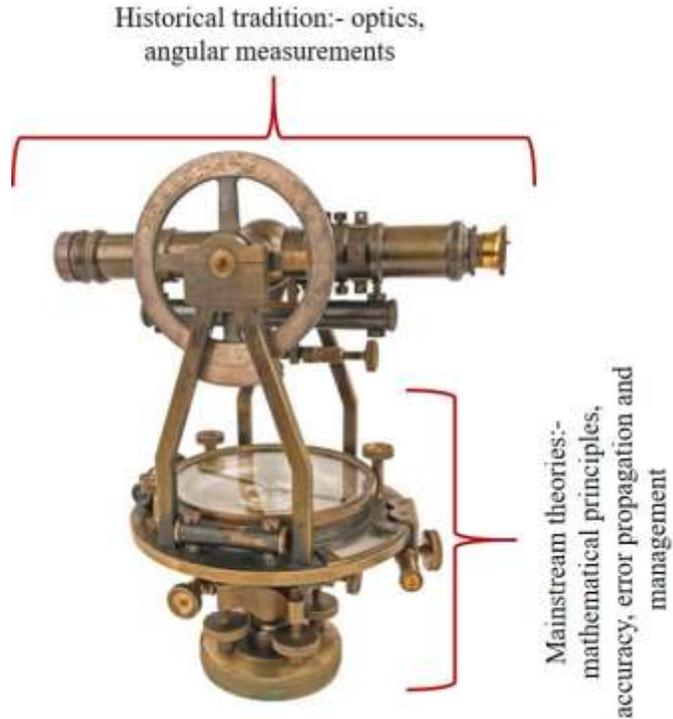


## Historical Perspectives – the Domesday Book



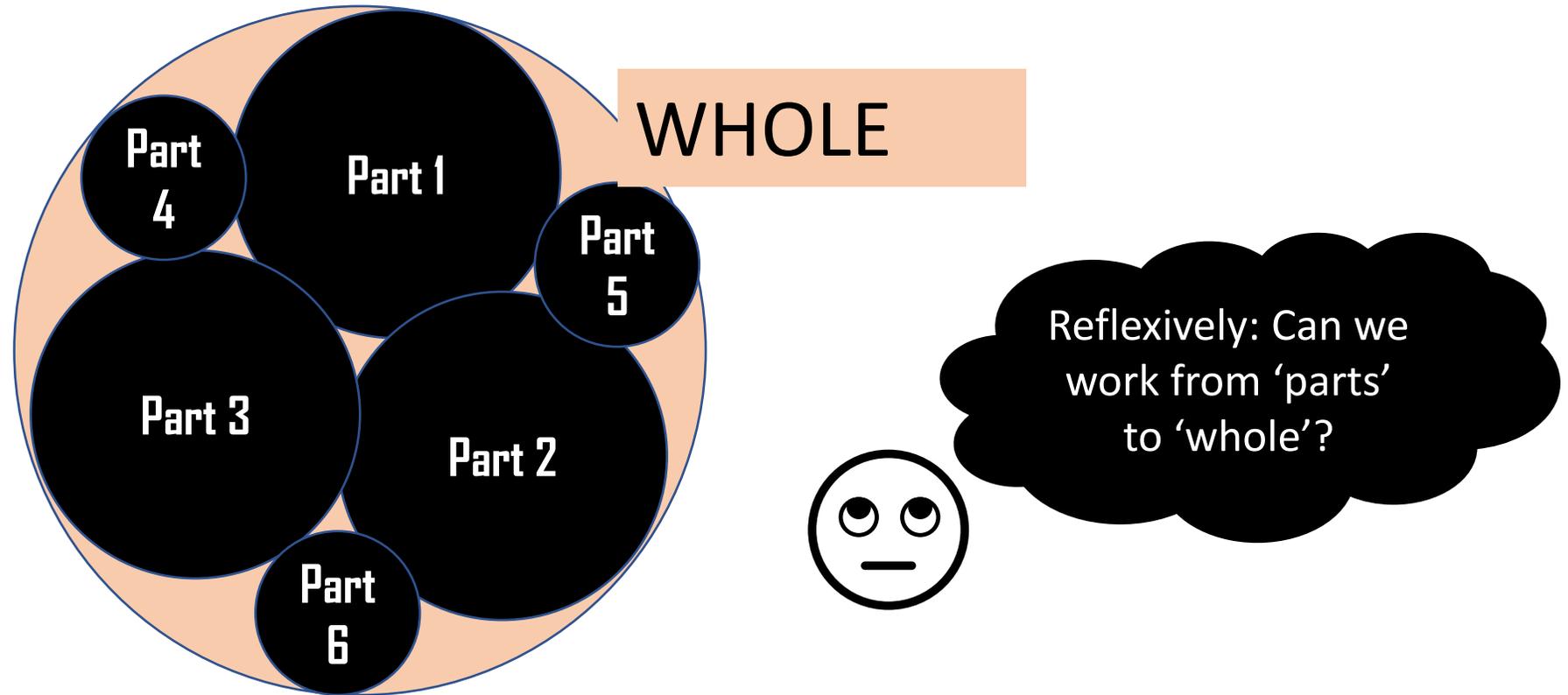
- Manuscript of the “Great Survey” that was done in 1086, covering much of England and some areas of Wales.
- Documentation of the fiscal rights of the King William I
- Reveals hierarchy, dominance and mainstream ideologies that founded the practice of land surveying
- Still resonates with the present-day surveying and the increasing needs of both the natural and the built world.

- Historical Perspectives – the theodolite

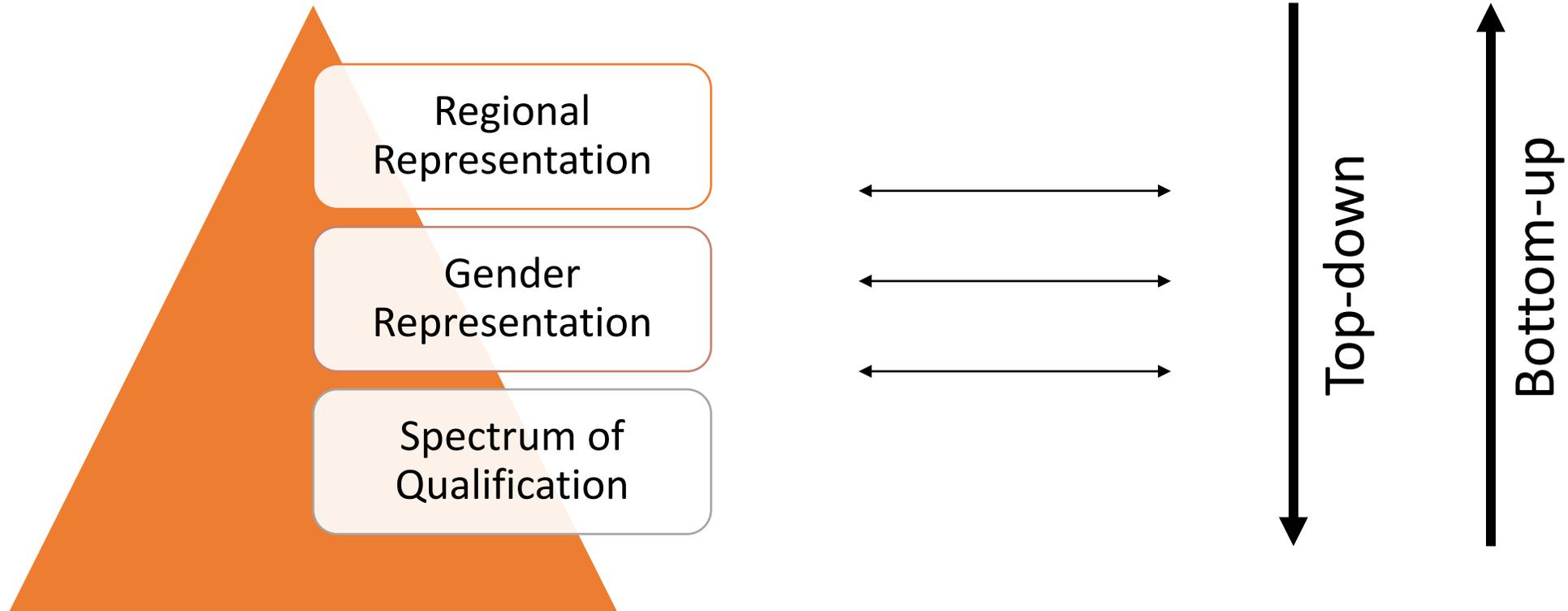


- **Historical tradition:** Optics and angular measurement
- **Mainstream theories:** Mathematical theories, accuracy, error propagation, and management

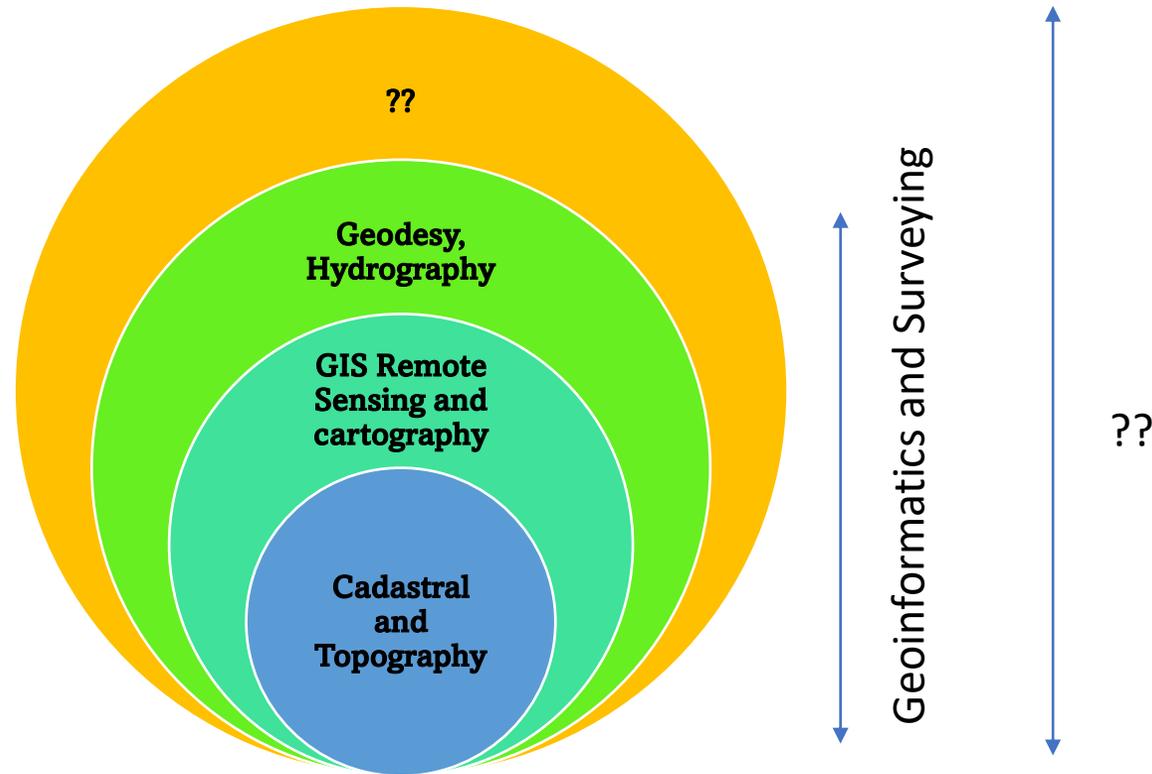
- Underlying principles – working from ‘whole’ to ‘parts’



- Hierarchies



- Pedagogy



## 4. Conclusion and study Limitations

- Land surveying exhibits expansive practical and theoretical tradition, which is important in defining its relevance.
- Preliminary findings reveals that the current evidence of ageing is inconclusive and circumstantial.
- The absence of a pivotal discourse element hindered much of the work the authors proposed.
- Land surveying and the geospatial sector can confront the new horizons of global challenges through an adapted curriculum of instruction, and onboarding faculties with a concentration on the essential aspects of land surveying and geospatial sciences