

# AERIAL IMAGERY COORDINATION PROGRESS

L. Ngcofe



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# BACKGROUND

- CD:NGI have been acquiring aerial imagery since 1926.
- Its mandate to continue acquiring aerial imagery is provided through Land Survey Act (8 of 1997).
- **Analogue imagery** – 1926 to 2007
- **Digital imagery** – 2008 to date



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# DIGITAL IMAGERY CAPTURING

- Since the inception of digital imagery the CD:NGI had embarked on a 3year image capturing plan for the whole country.
- However currently due to budget constraints, CD: NGI have been forced to look at five year capturing plan *together with investigating collaboration with other aerial imagery capturing stakeholders.*

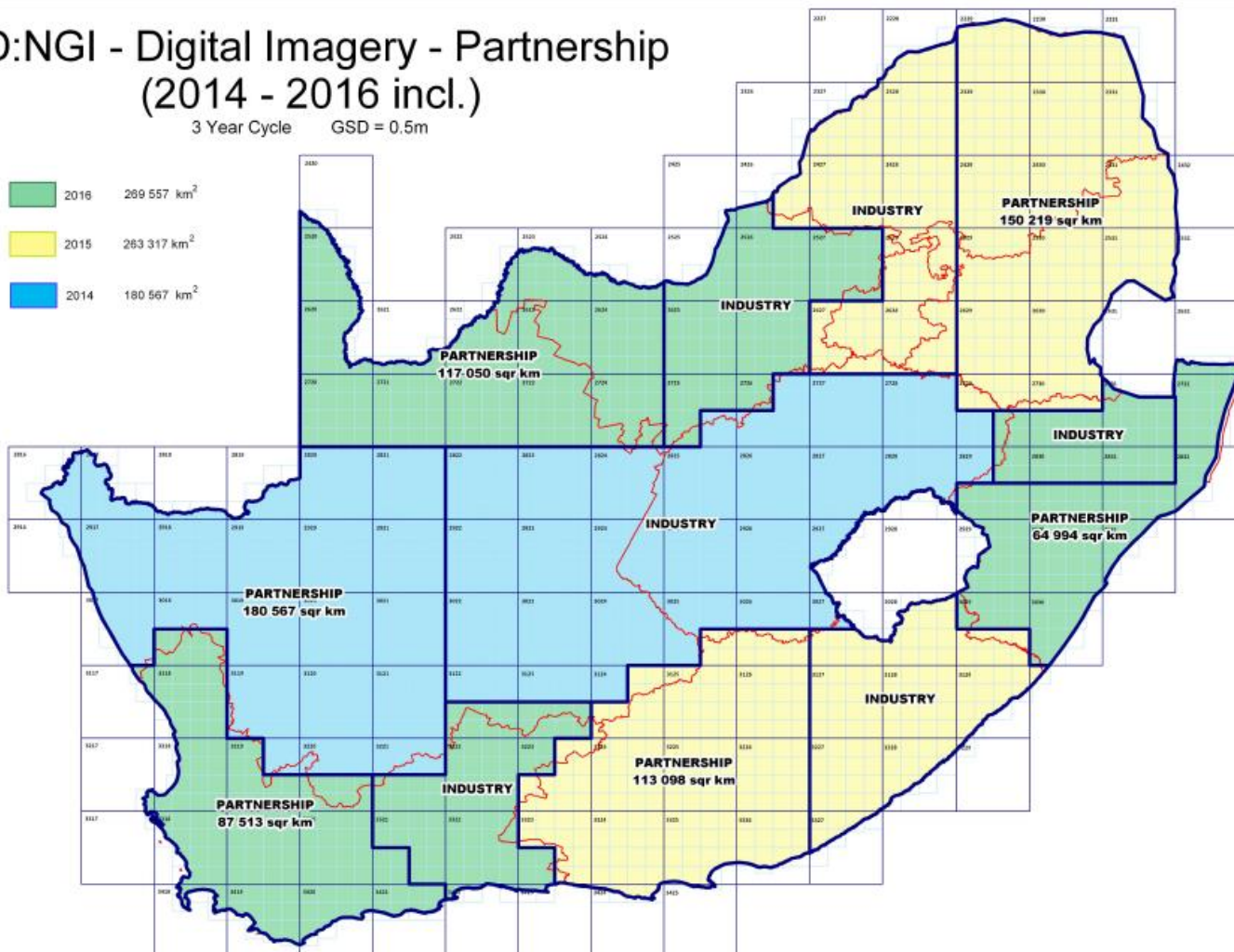


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# CD:NGI - Digital Imagery - Partnership (2014 - 2016 incl.)

3 Year Cycle GSD = 0.5m



A/P - Planning of areas ... 3 year cycle ... All partnership areas 20131210 (S.J GWS)



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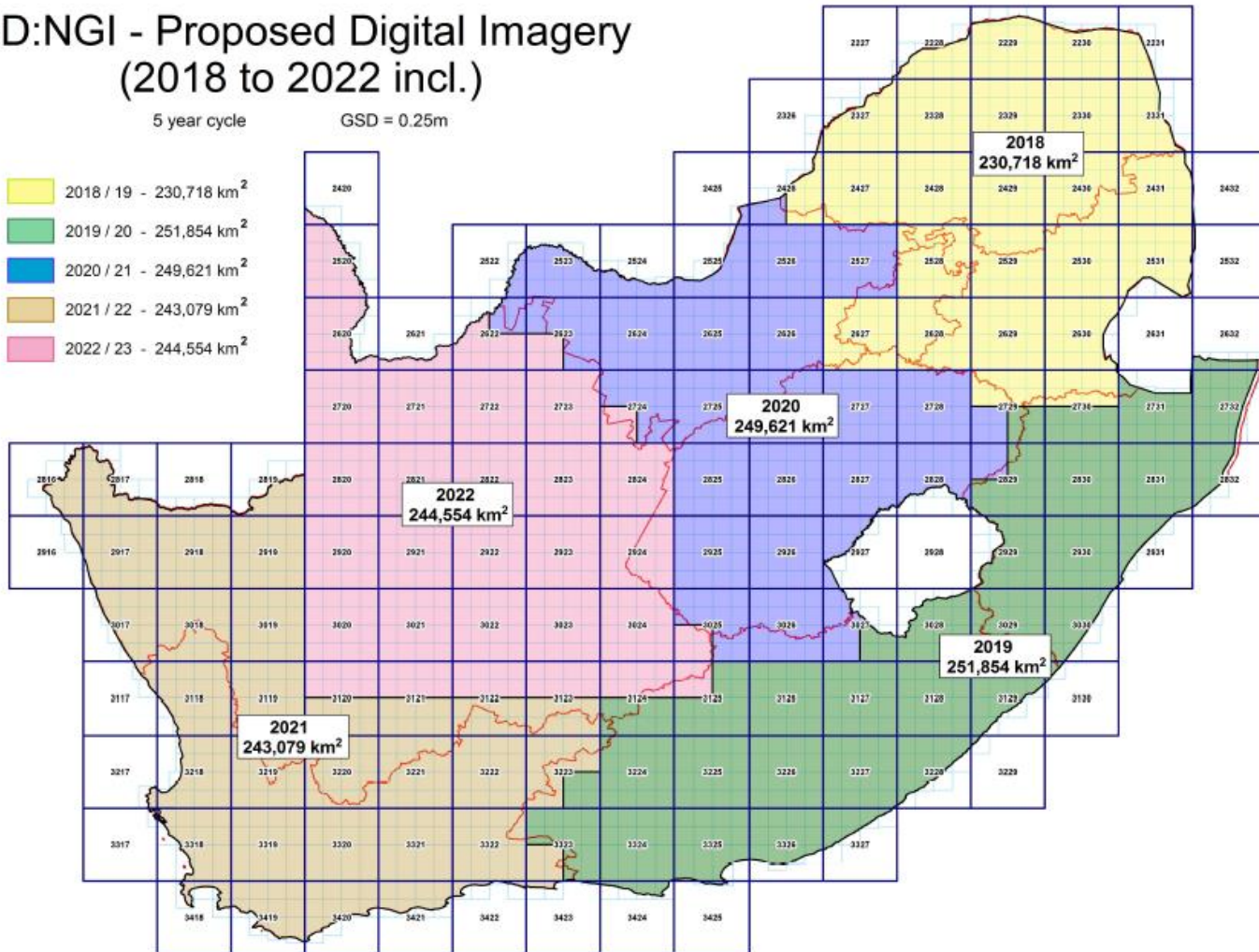
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# CD:NGI - Proposed Digital Imagery (2018 to 2022 incl.)

5 year cycle

GSD = 0.25m

- 2018 / 19 - 230,718 km<sup>2</sup>
- 2019 / 20 - 251,854 km<sup>2</sup>
- 2020 / 21 - 249,621 km<sup>2</sup>
- 2021 / 22 - 243,079 km<sup>2</sup>
- 2022 / 23 - 244,554 km<sup>2</sup>



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# ...collaboration with other aerial imagery capturing stakeholders.

- CD:NGI has embarked in identifying major aerial flying stakeholders:
  - Metropolitan areas
  - Local municipalities
  - District municipalities
  - COGTA – KZN
  - National departments (Water & Sanitation)
  - State entities – such as Eskom



# COORDINATION OF AERIAL IMAGERY

- Moving forward coordination approach towards aerial imagery capturing is encouraged and recommended.
- Collaboration is the key!!!



# ...how? Where do we start?

- CD:NGI together with the guidance by NSIF through CSI have embarked on coordination meeting or rather how to approach aerial imagery coordination.
- Provinces visited thus far:
  - Mpumalanga
  - North West
  - Limpopo &
  - Western Cape



- The following were the main focus areas identified to be discussed:
  - Agree on process documents (procedures, standards, delivery format, storage).
  - Quality assurance measures , consistency.
  - Liability and issues of data assurance ( standard period maintaining the data on agreed time frames).
  - Licensing and data ownership.
  - Sharing limited resources (coordinated planning) and the plan has to focus on a three period.



# SUMMARY OF DISCUSSIONS

- The issue of capturing resolution - how to manage various resolution requirements.
- Issues of imagery archives or storage – lack of infrastructure is a major concern.
- Some imagery acquired by stakeholders does not entail raw imagery.
- The project of image acquiring is driven by other units which don't include spatial data units.



# RECOMMENDATIONS

- Directive from Provincial government and SALGA that resources must be shared especially for the acquisition of aerial imagery.
- There is a need that the terms of reference for acquisition of aerial imagery be standardised in order to make sure what is expected will be suitable for many users.



- It is suggested that there is a need to present the value of aerial imagery at the provincial structure where municipal managers and Chief Financial officers are present. To request that the acquisition of aerial imagery should be considered as a standard item for budget.
- It was requested that a foot print of what has been acquired nationally and provincially be made available

- There is a need for information sharing among the municipalities based on the information have been collected, this includes other geospatial information data not only the Aerial imagery.
- The Memorandum of understanding with municipalities will it be required for this coordination.



# THANK YOU



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