Defence and Intelligence Symposium

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“Since 1890, mapping Brazil”
Mission

Produce geospatial data of Brazilian Territory
The Challenge of Mapping Brazil

- Area: 8.000.000 km²
- Land border: 16.000 km
- Sea border: 7.000 km

“Since 1890, mapping Brazil”
Amazon Region
Since 1890, mapping Brazil
GEOGRAPHIC SERVICE OF BRAZILIAN ARMY

Technologic Solution

OPTICAL

WITHOUT INFORMATION

INTERACTION WITH CANOPY
Technologic Solution

OPTICAL
Amazon Region

70’s & 80’s mapping (DSG)

70’s, 80’s & 90’s mapping (other)
Cartographic Blank

- Forest
- Non-forest
Technologic Solution

X Band

P Band

CANOPY

GROUND
Technologic Solution

X Band

P Band

DSM

CANOPY

GROUND

DTM
FASES OF THE PROJECT

• Field Survey Data

• Processing of SAR data

• Extraction of Cartographic Features
GEOGRAPHIC SERVICE OF BRAZILIAN ARMY
STATUS OF THE PROJECT

GEOGRAPHIC SERVICE OF BRAZILIAN ARMY

- Field Survey Data (100%)
- Processing (23%)
- Cartographic (15%)
Conclusion

The Mapping Project of the Amazon has a strategic dimension and it will provide a deeper understanding of the Brazilian Amazon, through the most comprehensive collection of geospatial data from that region.