



FIG C7, 26th Sep. 9:00-10:30 Session

Mapping Geomatics Education Around The World

Angel Collado (Spain) 

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Silver sponsor:



What is Geomatics?

“Discipline concerned with the collection, distribution, storage, analysis, processing, presentation of geographic data or geographic information”

ISO/TC 211 Geographic information/Geomatics



Do we all understand this definition?

Does it need to be redefined or completed?

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What is Geomatics?

Academic Context

Do we know what is the core of our studies? What does our discipline consist of?

Techniques vs. Applications.

Do we know which are techniques and which are applications?

Do we know the difference between technical studies, science and engineering?



Professional Context

What do we mean by a profession?

Has there always been one profession in our field or are there several?

Are we identified by the same name in all countries?

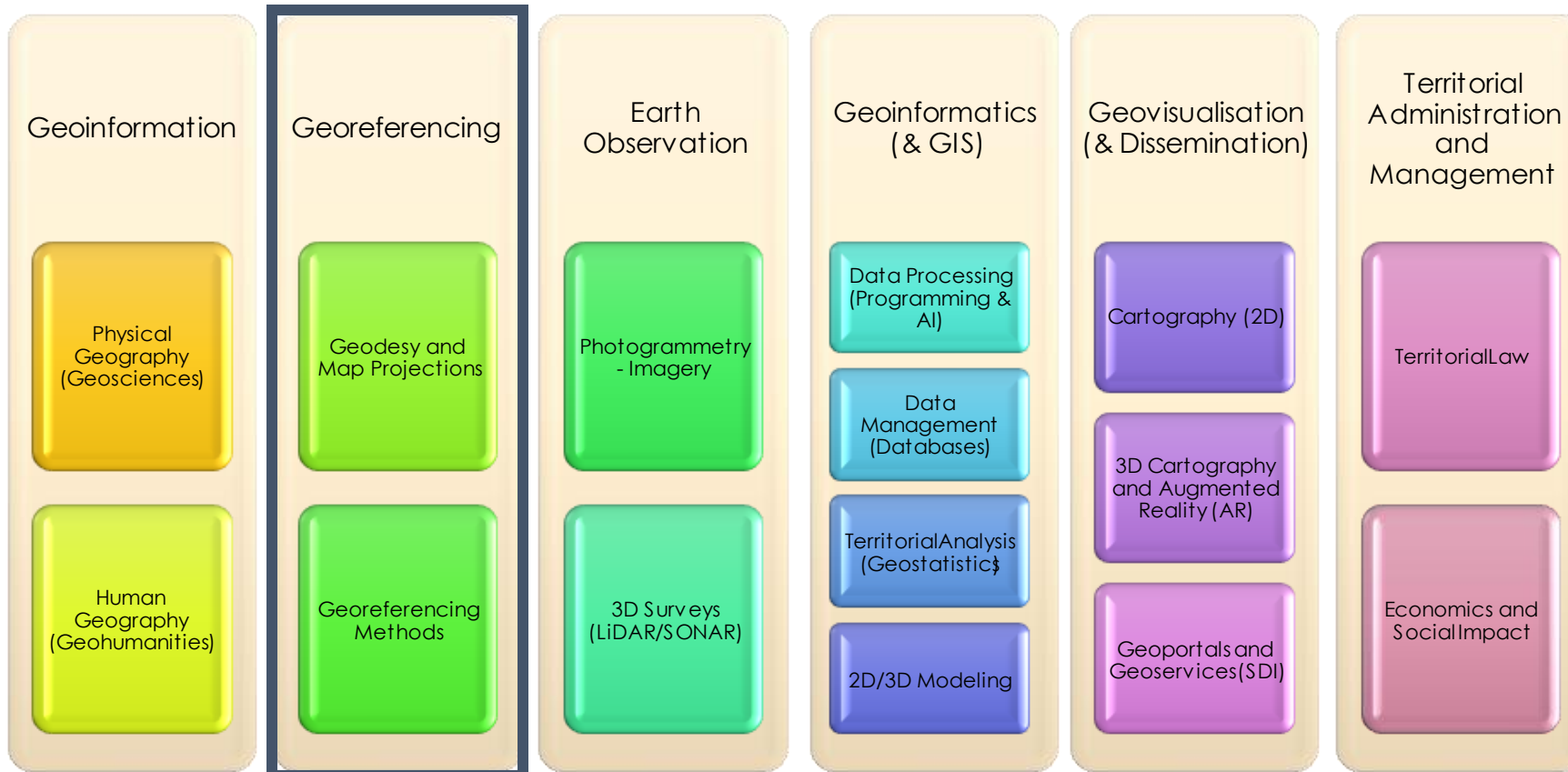
Do all professionals do the same job and perform the same functions?

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Surveying vs. Geodesy

Land Surveying => Surveying =>
Geospatial Surveying (= Géomètre)

Surveying => Do a survey
levantamiento in Spanish

levé in French

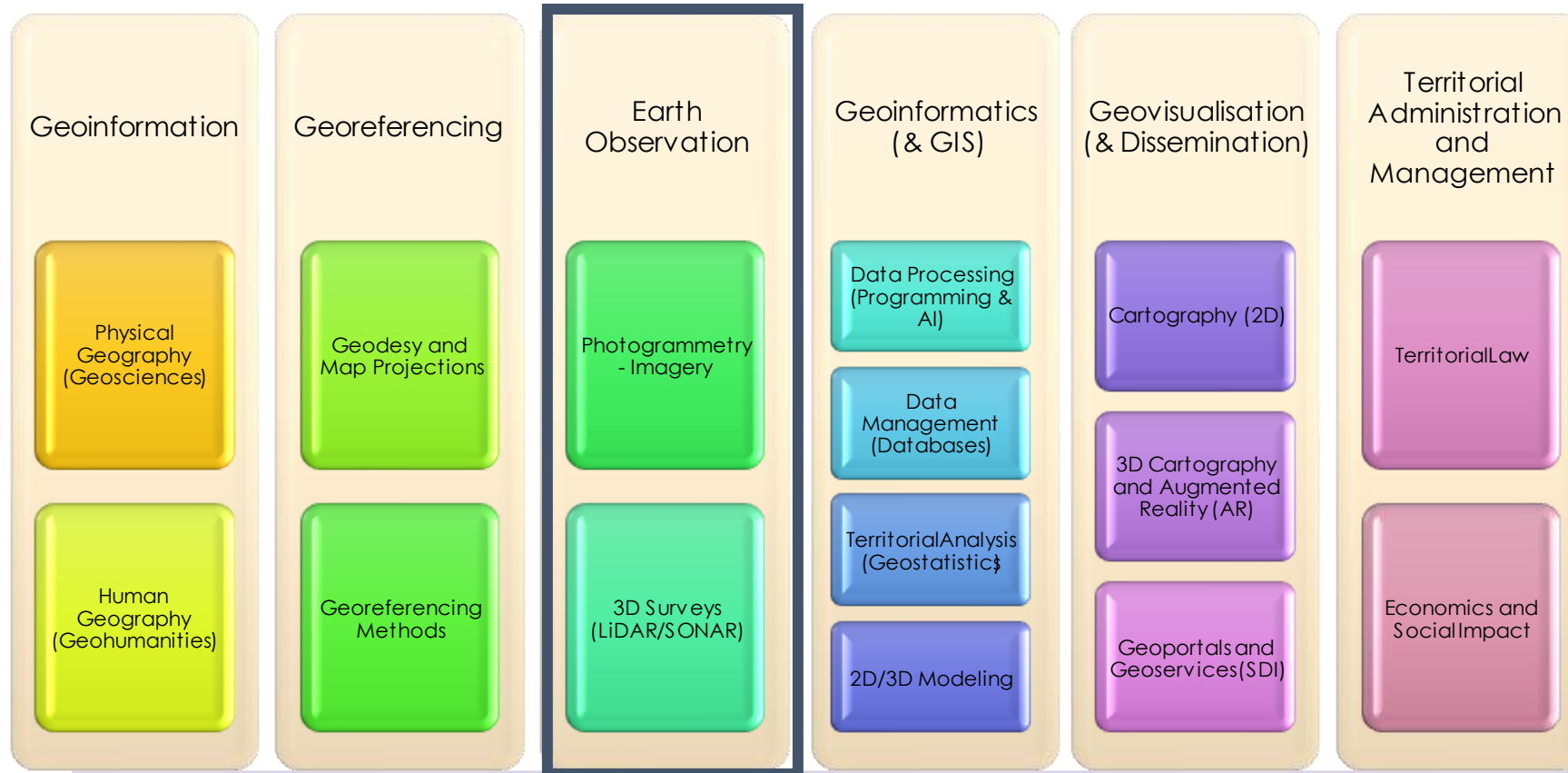
rilievo in Italian

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Photogrammetry vs. Remote Sensing

Remote Sensing => A technique or physical principles?

LIDAR, SONAR, RADAR...

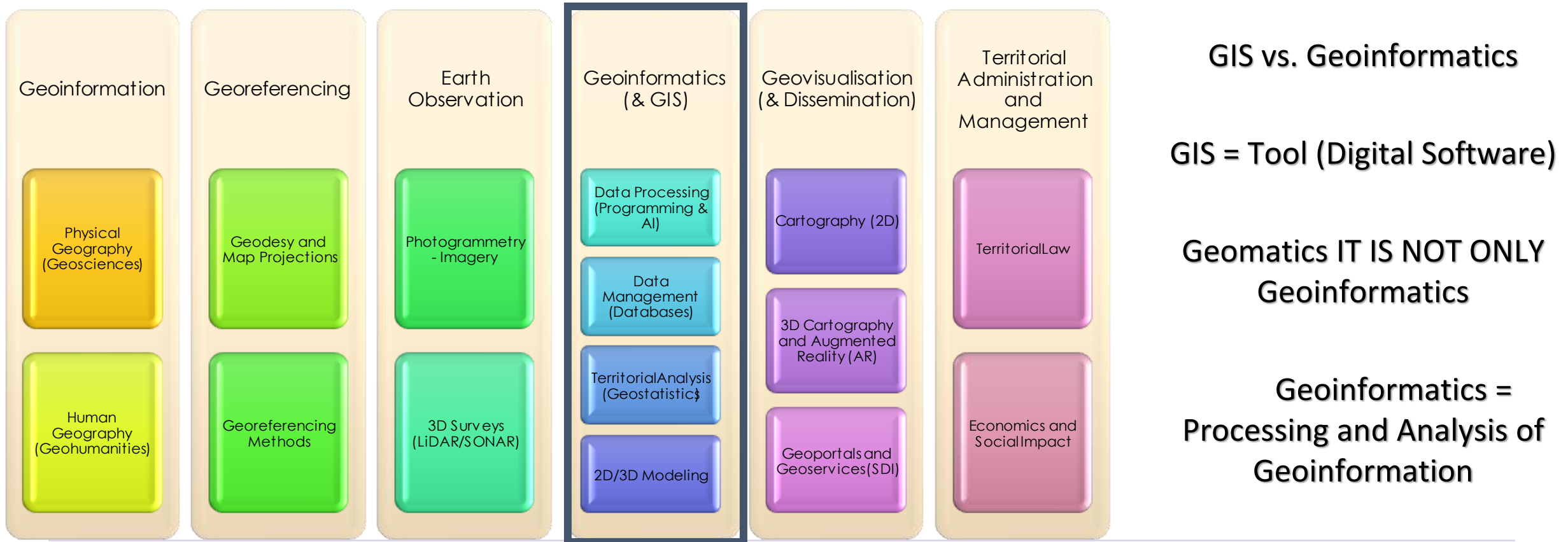
Photogrammetry = Imagery (Geometry + Radiometry)

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GIS vs. Geoinformatics

GIS = Tool (Digital Software)

Geomatics IT IS NOT ONLY Geoinformatics

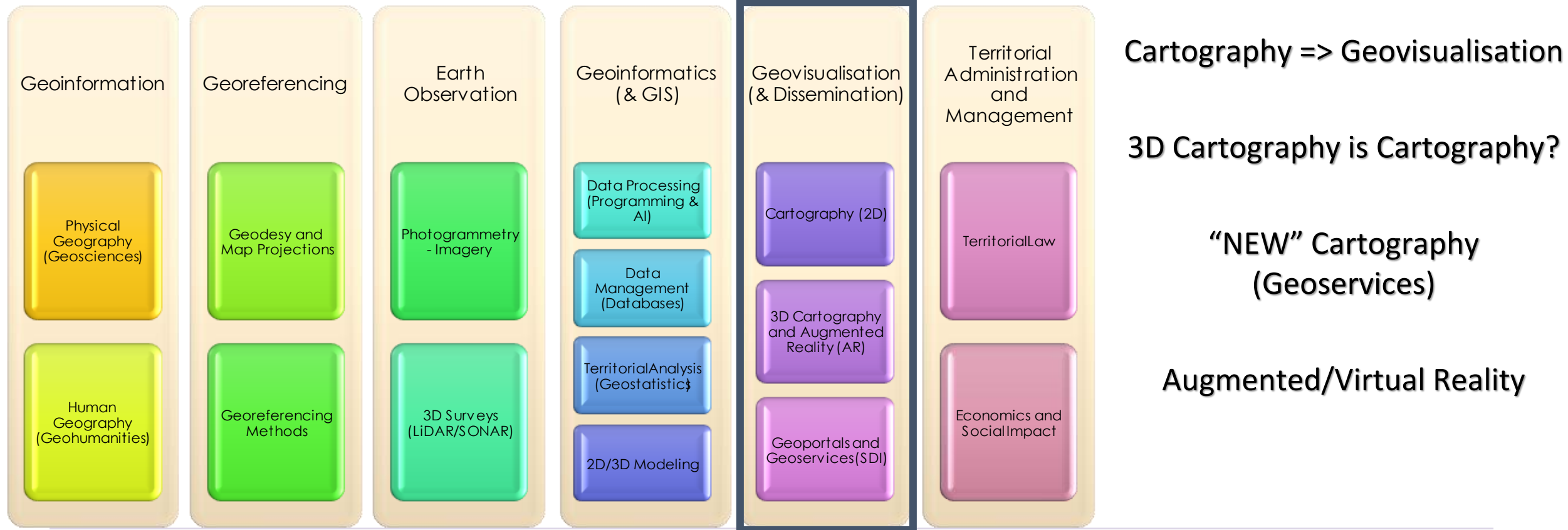
Geoinformatics = Processing and Analysis of Geoinformation

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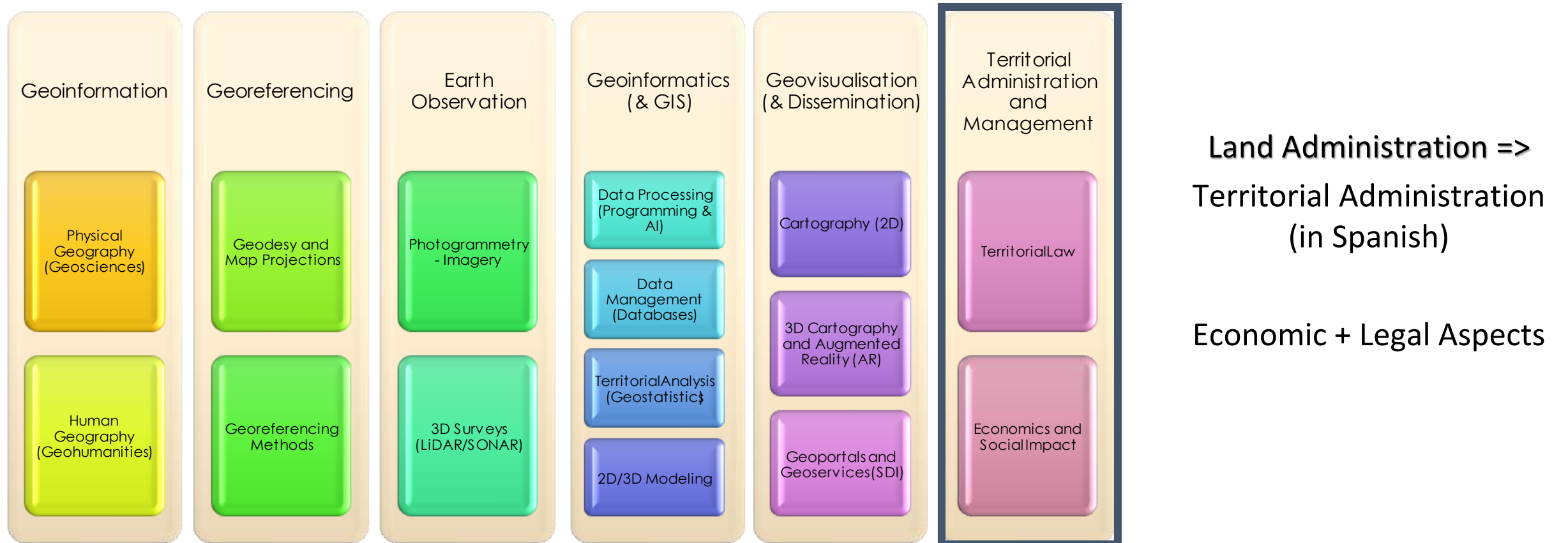


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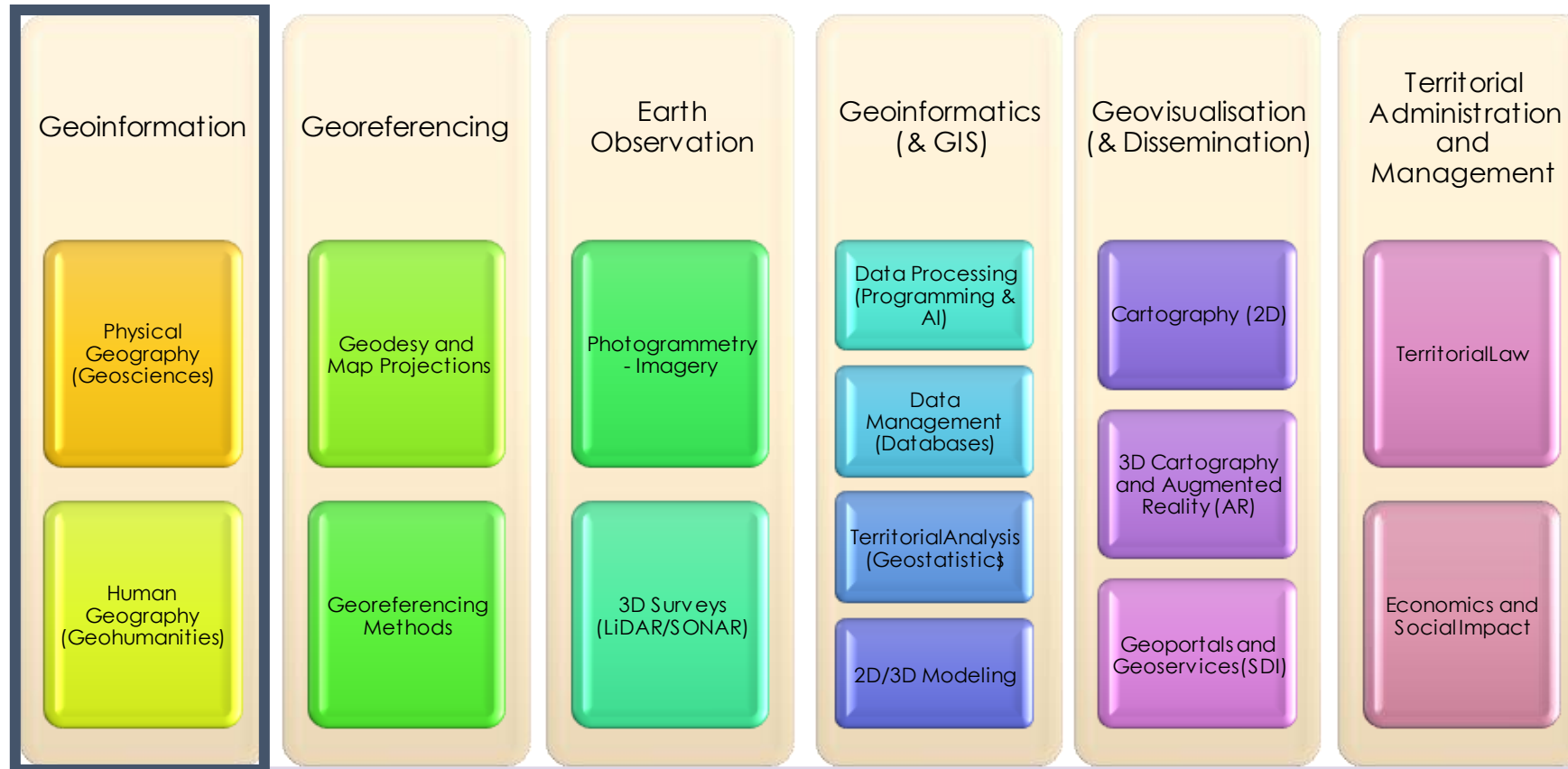


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Geoinformation or Geospatial Information or Geographical Information

Geospatial = Adjective

Geospatial X = GEOGRAPHY

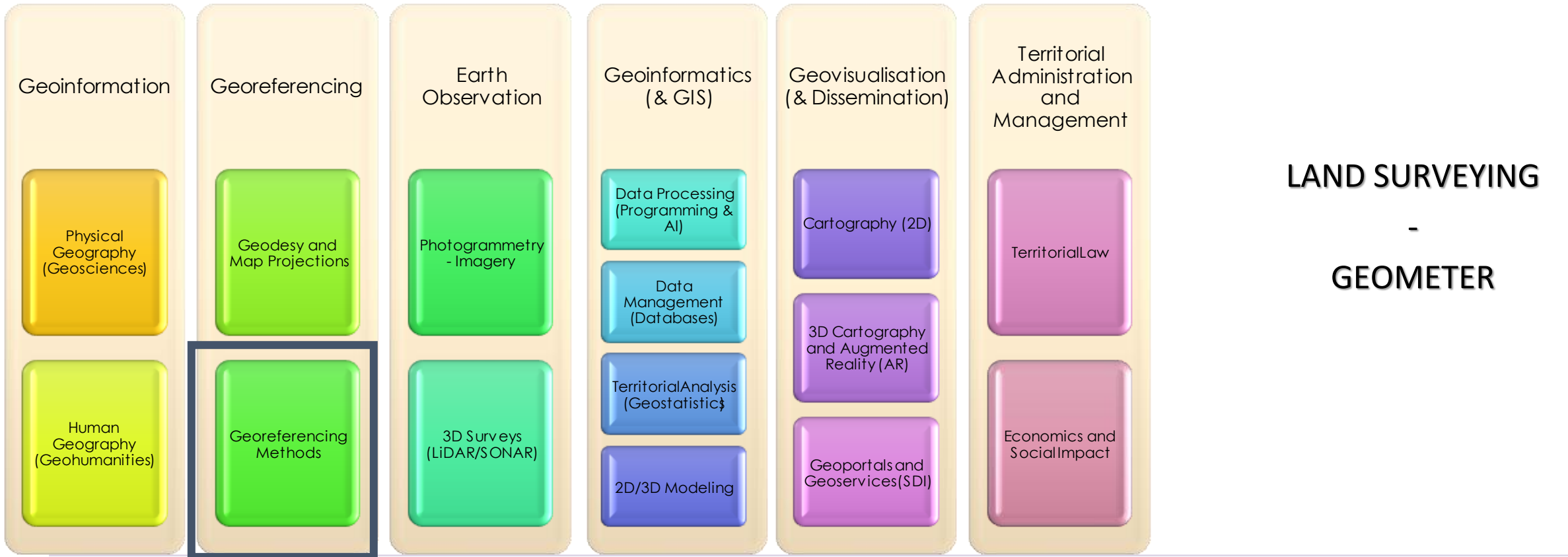
GEOSPATIAL SCIENCE = GEOGRAPHICAL SCIENCE

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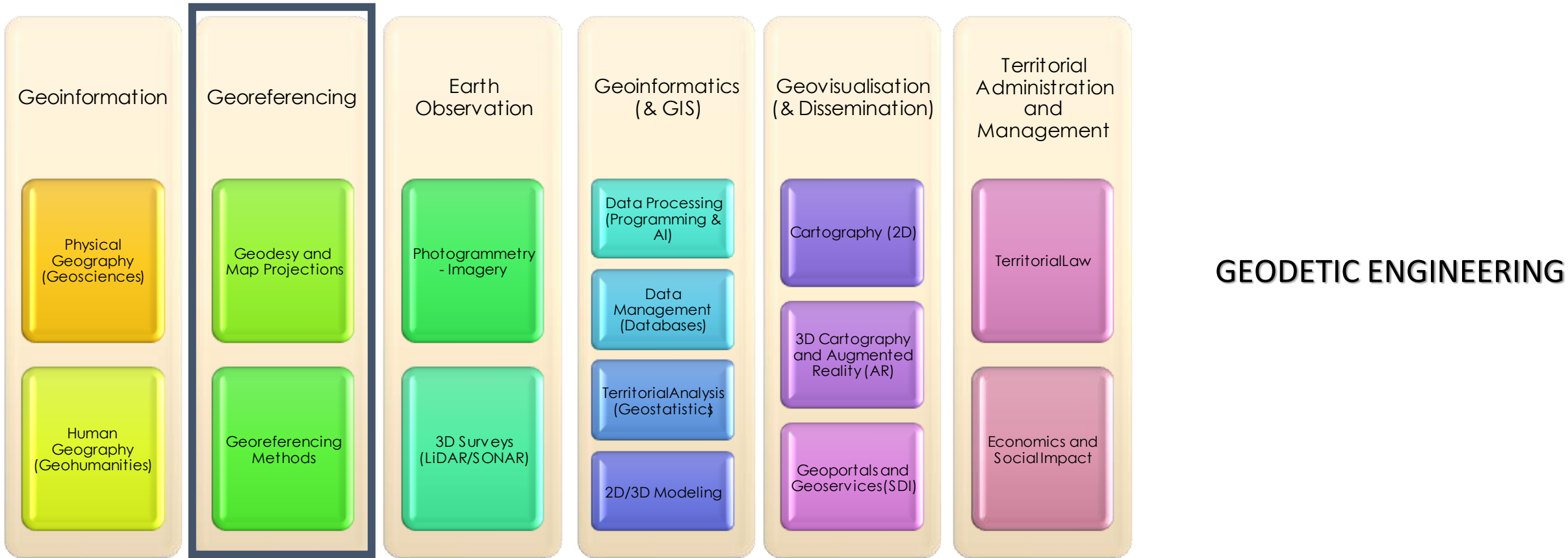


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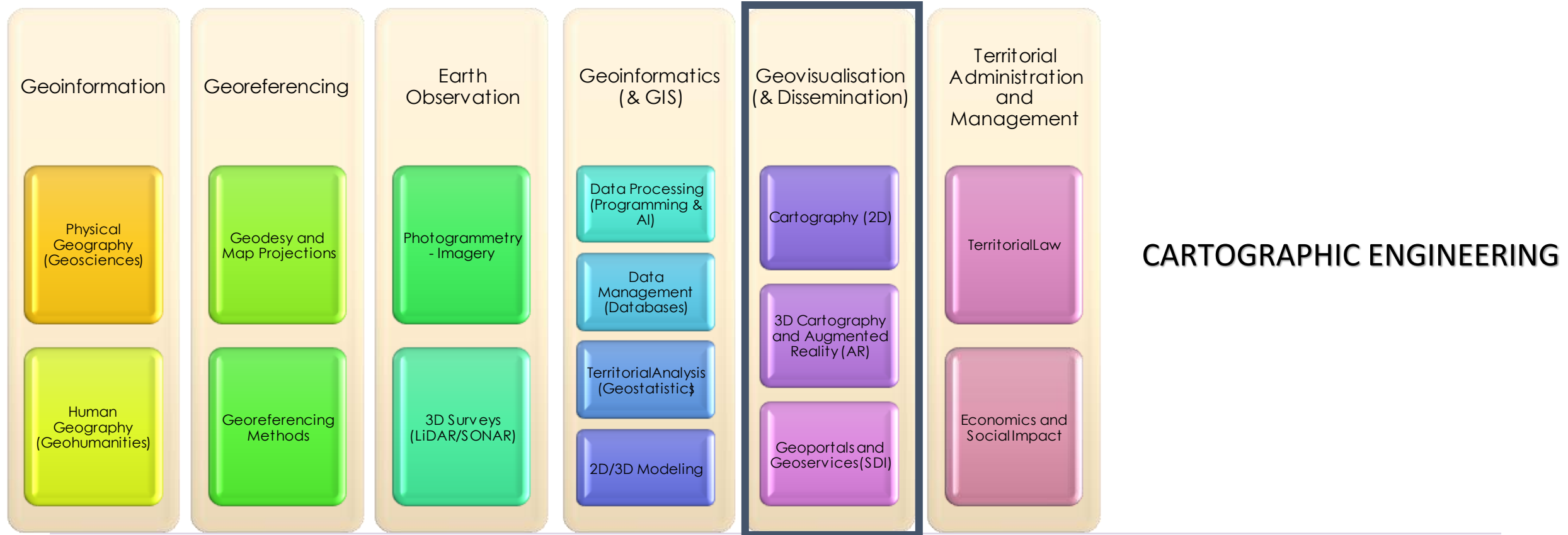


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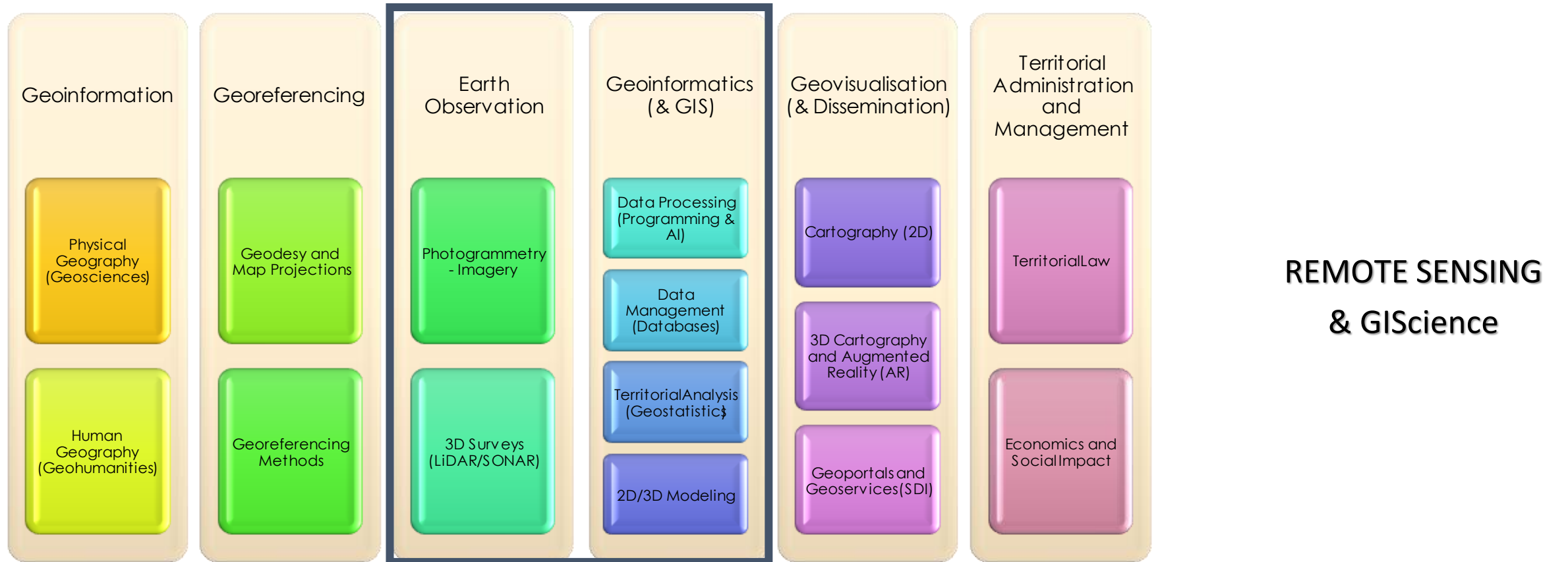


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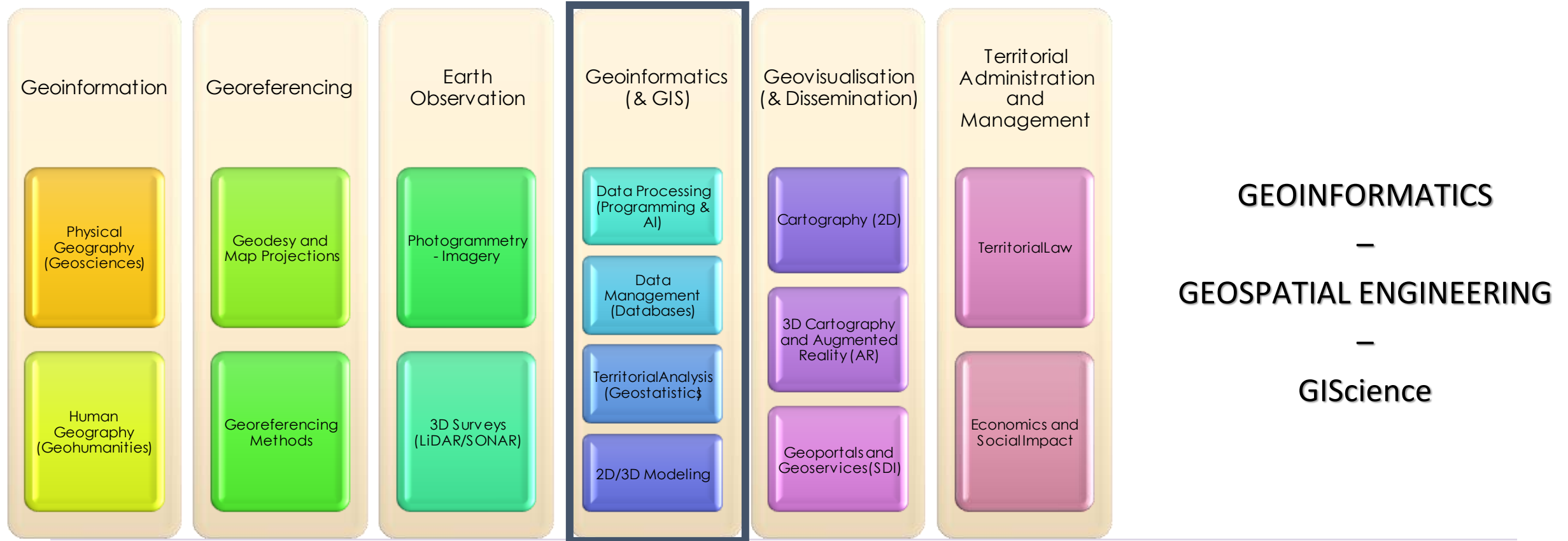


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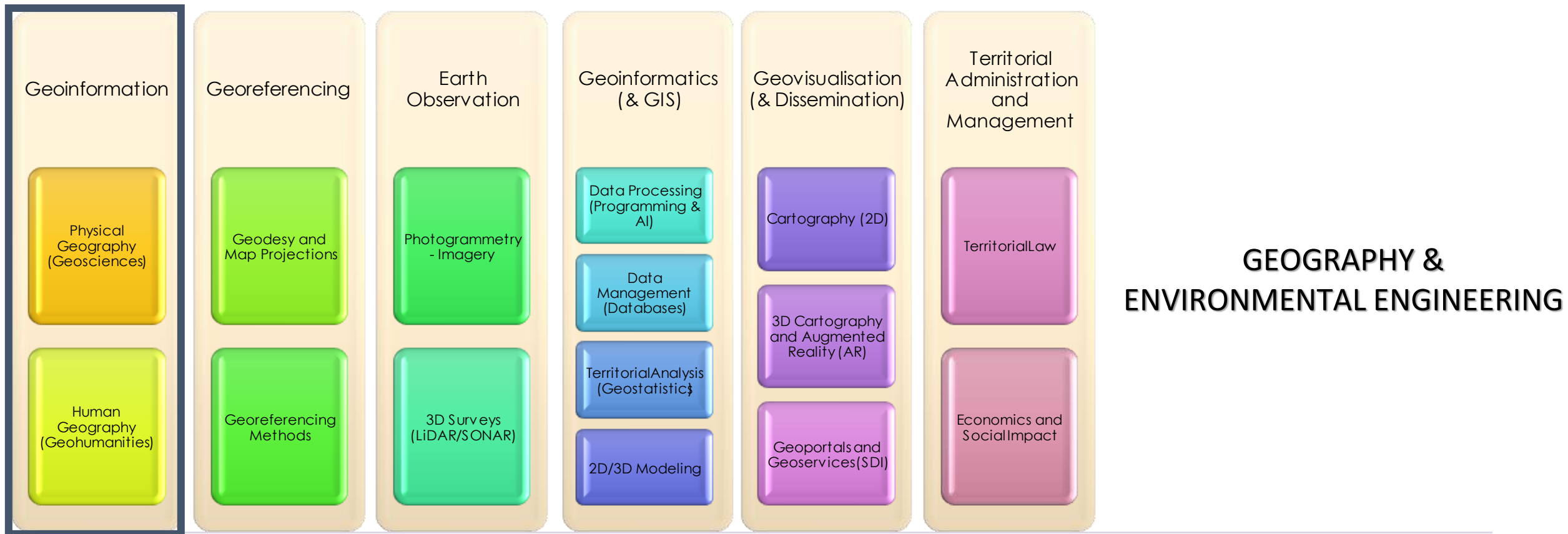


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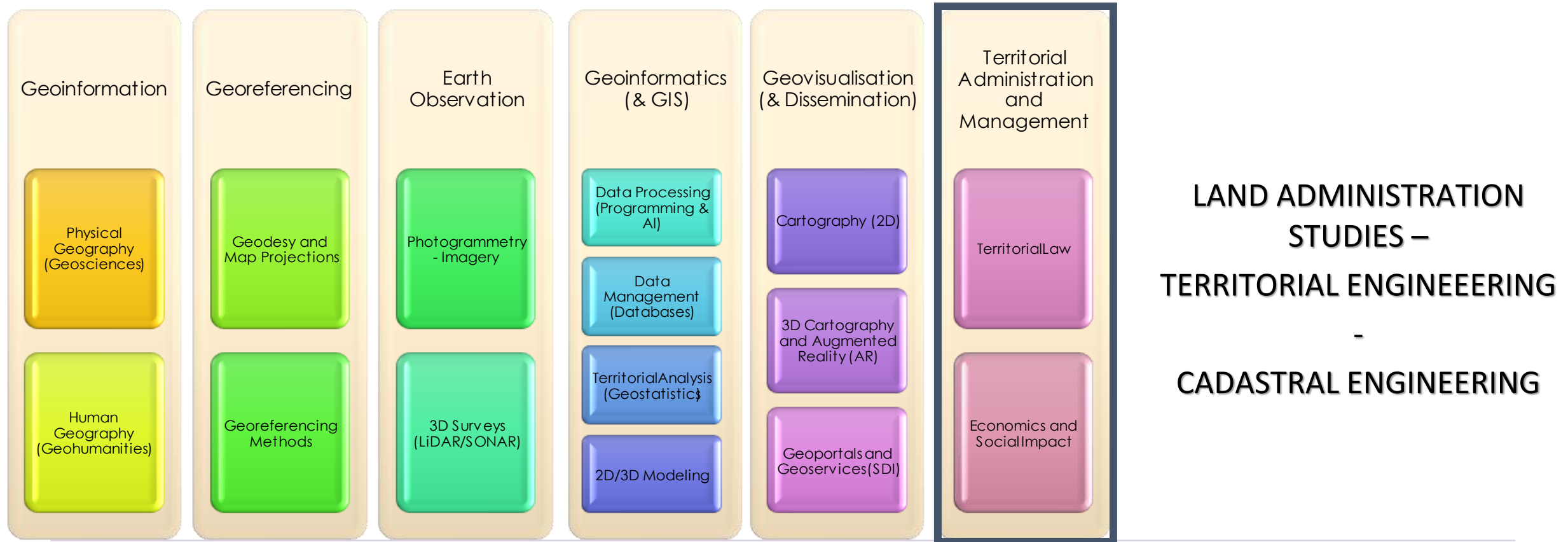


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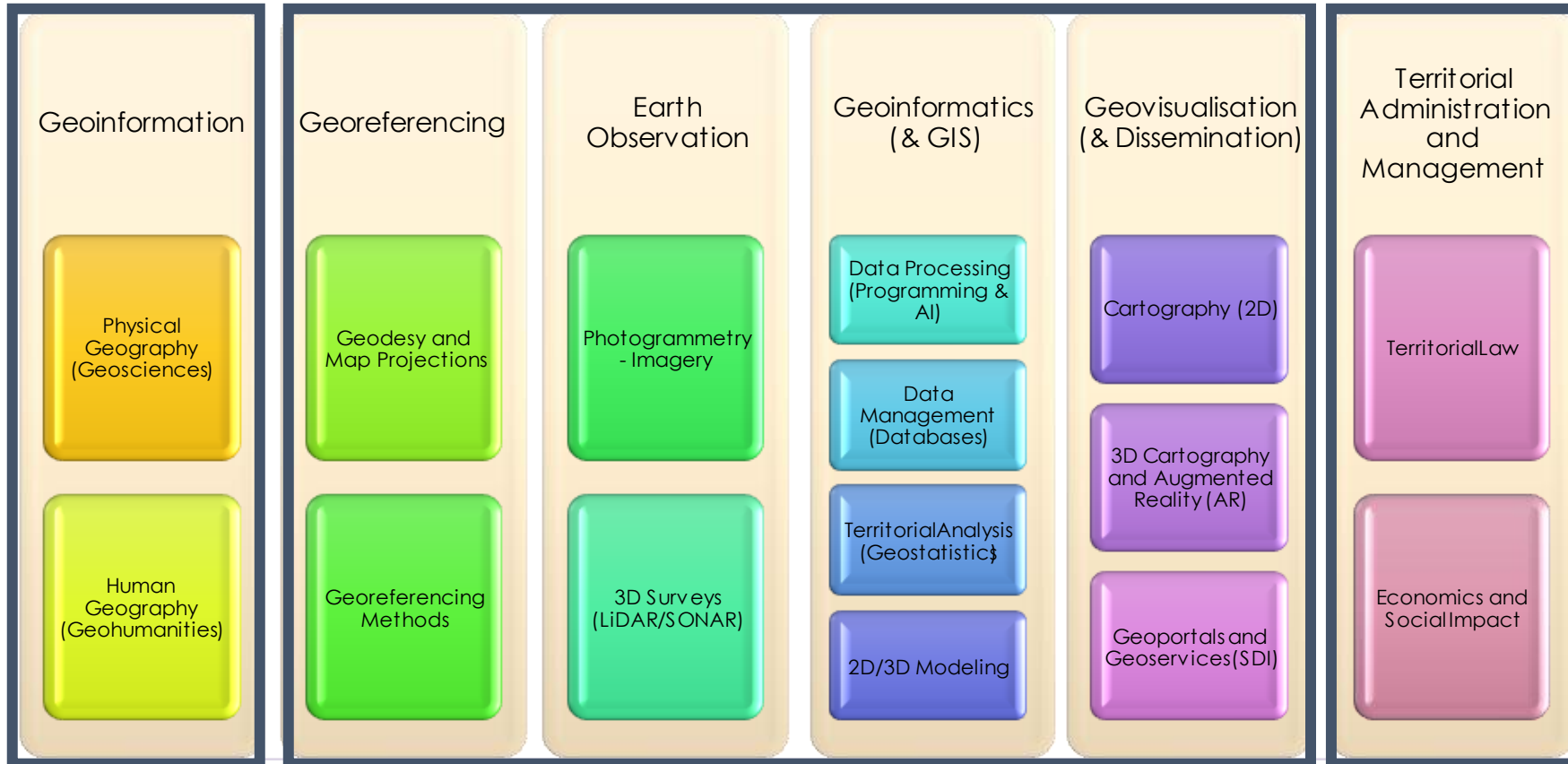


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THIS IS GEOMATICS ENGINEERING

(FOR ME....)

- BACHELOR'S DEGREE-

GEOSPATIAL (GEOGRAPHICAL) SCIENCE

+

TECHNIQUES

+

TERRITORIAL ADMINISTRATION / MANAGEMENT (OUR WORLD)

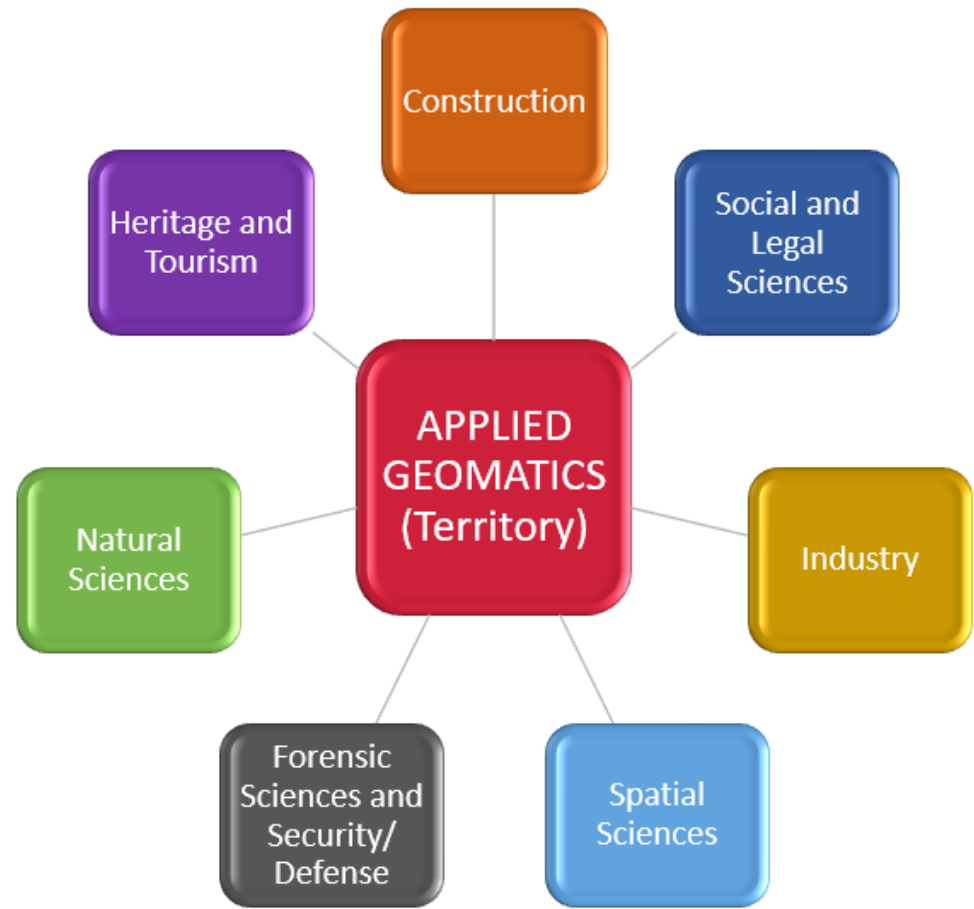
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MASTER'S DEGREE

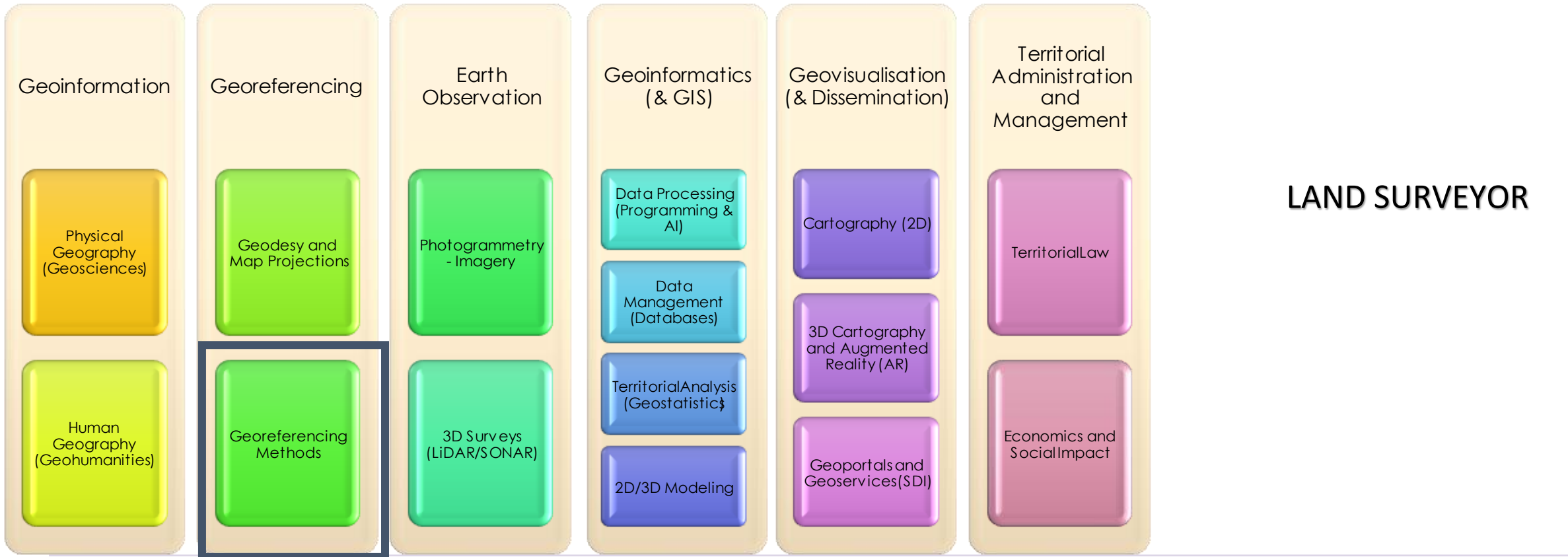


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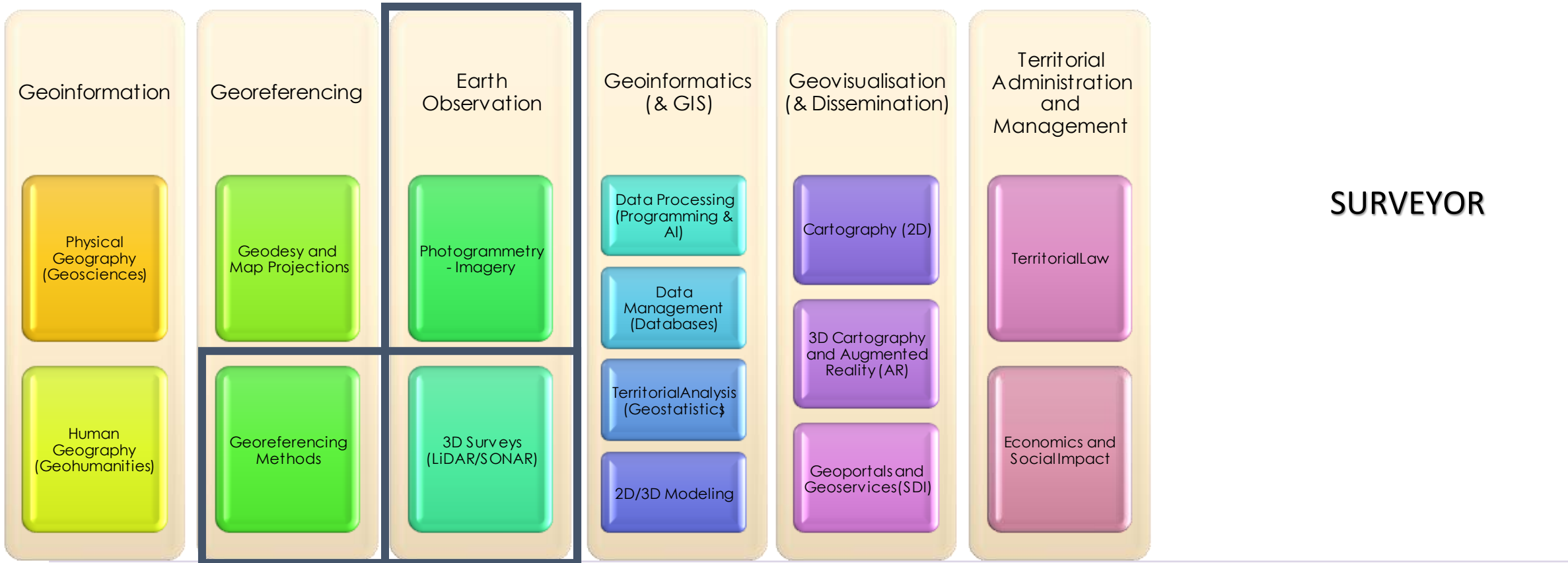


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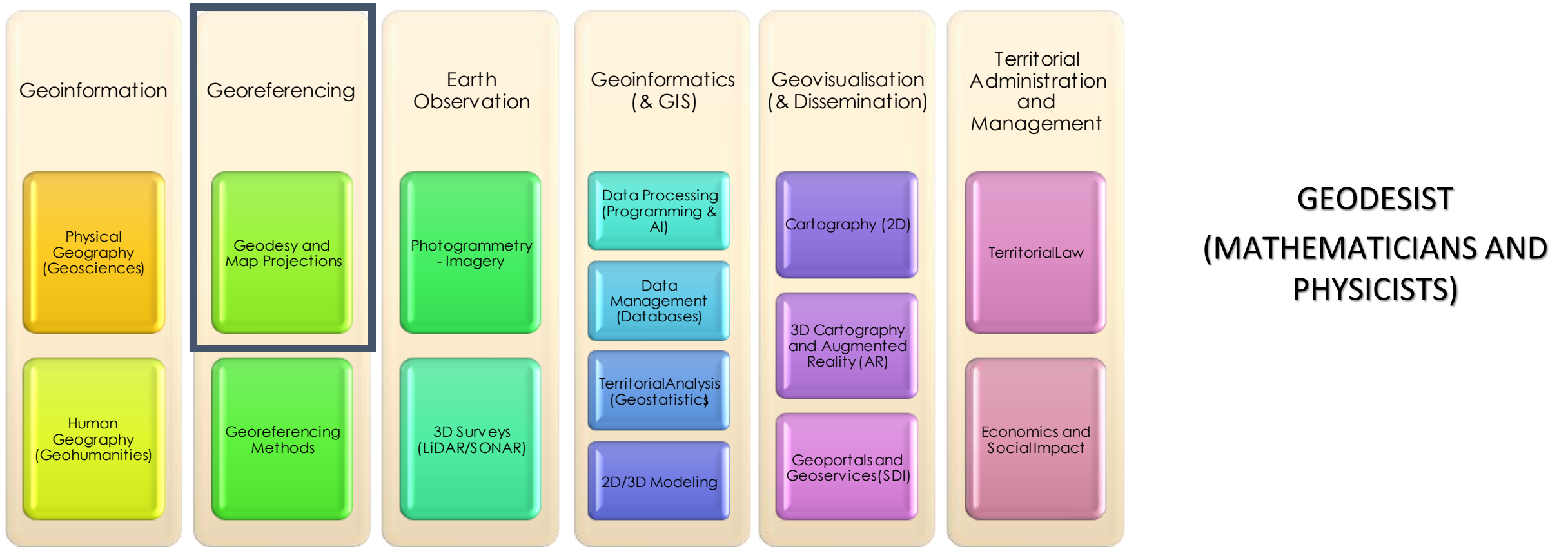


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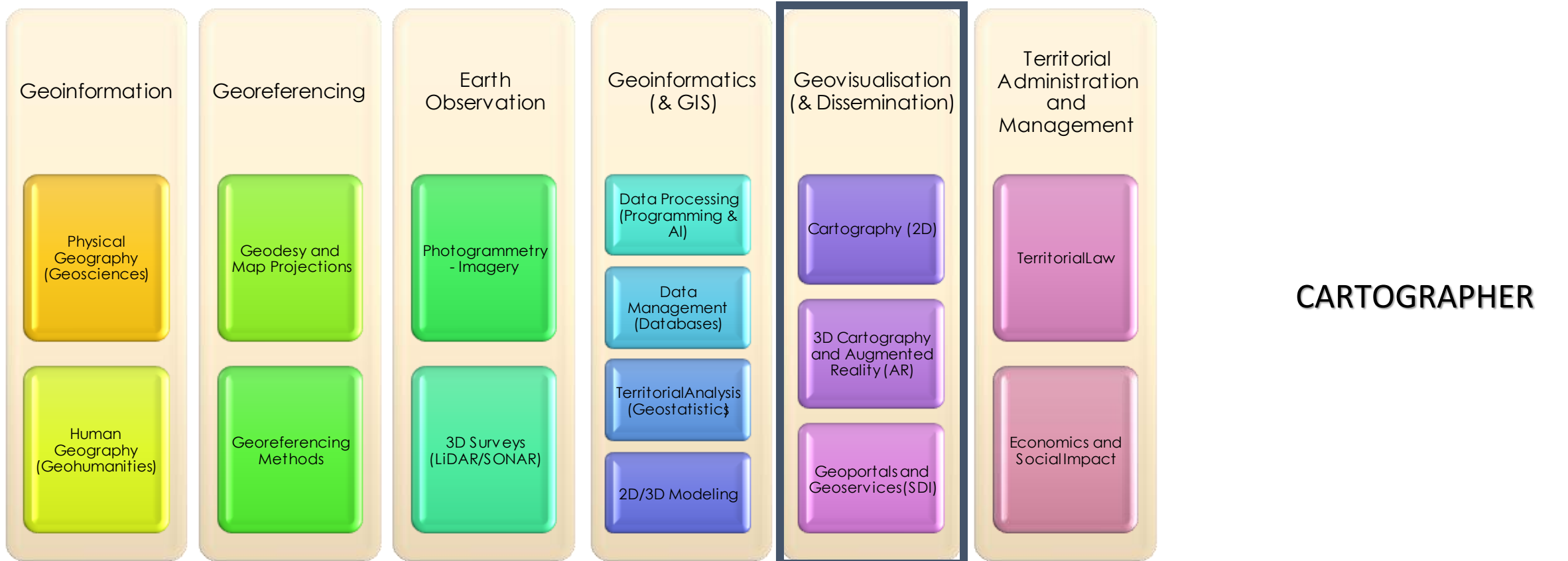


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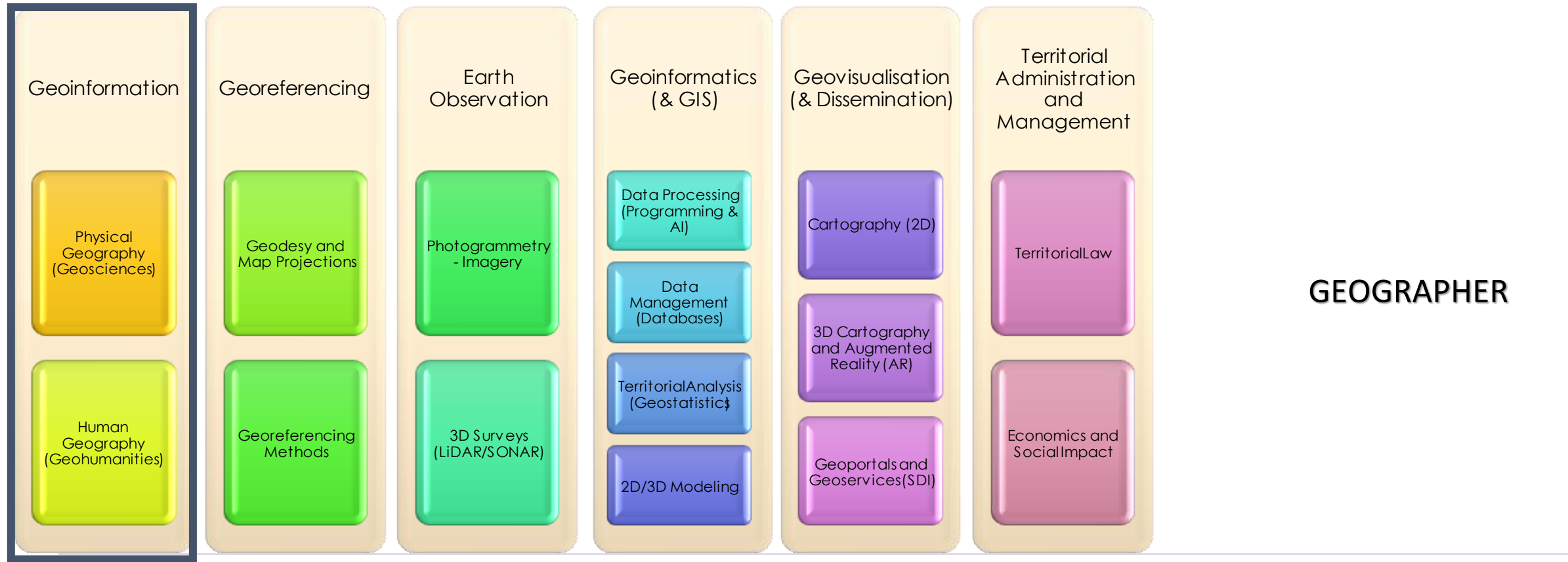
CARTOGRAPHER

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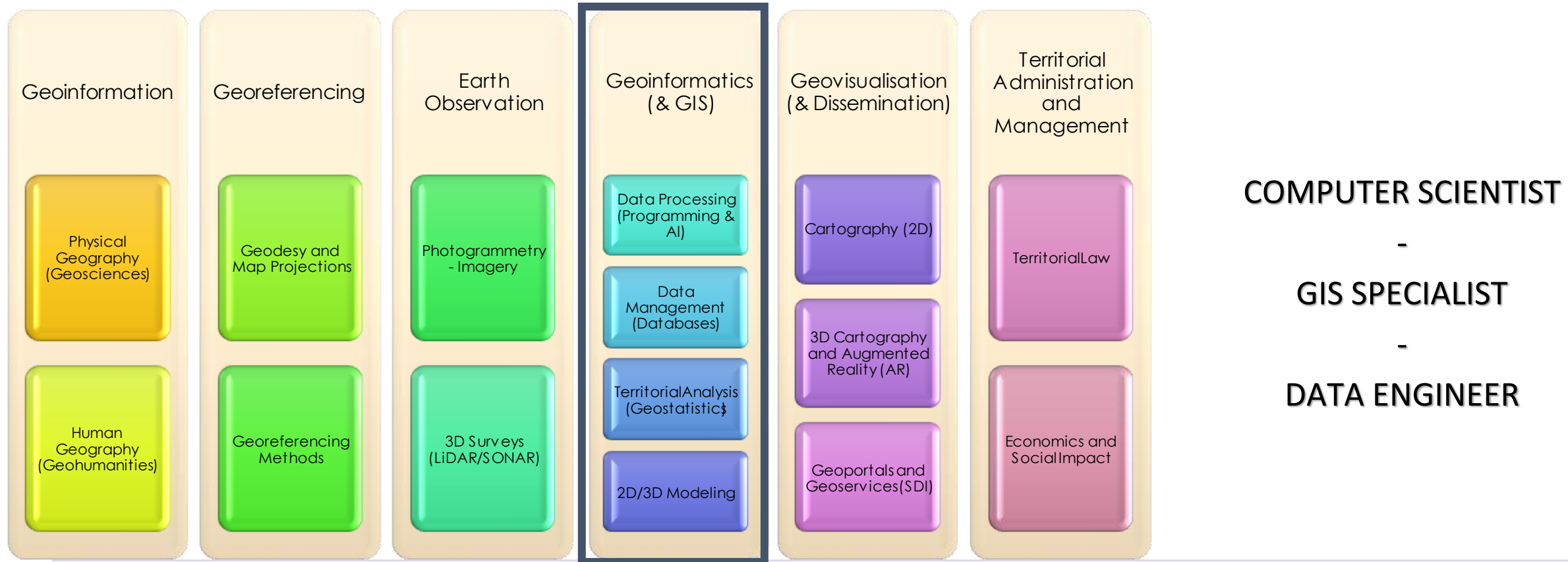
GEOGRAPHER

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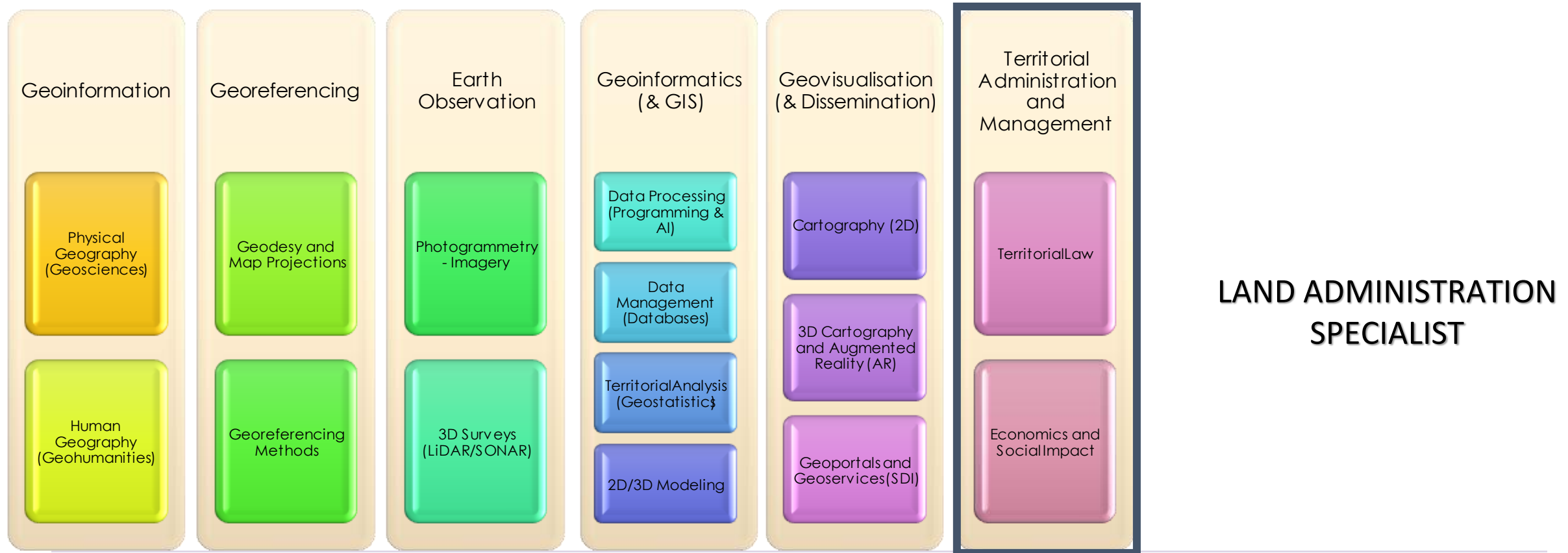


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Gold sponsor:



Silver sponsor:





CARTOGRAPHER

GEOGRAPHER

GEODESIST

COMPUTER SCIENTIST

EARTH OBSERVATION
SPECIALIST

SURVEYOR

-

GIS SPECIALIST

-

DATA ENGINEER

LAND ADMINISTRATION
SPECIALIST

Land, Aerial, Satellite/Spatial

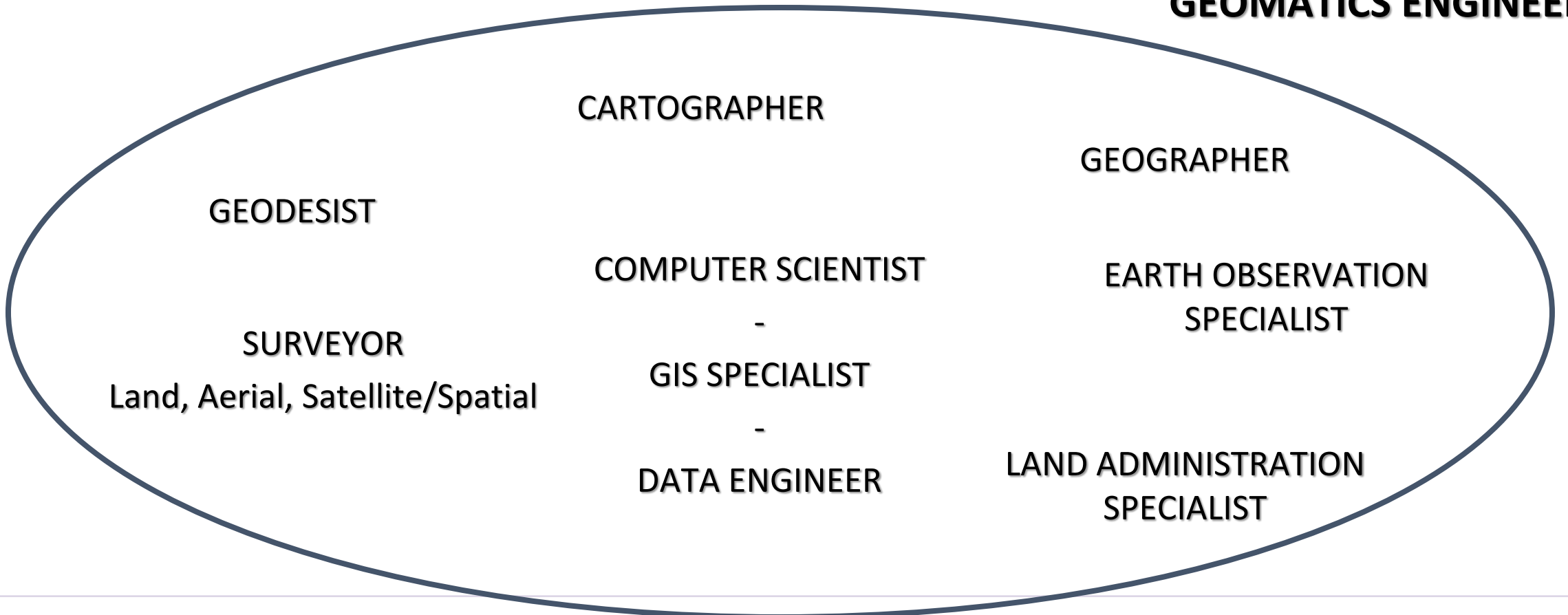
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GEOMATICS ENGINEER

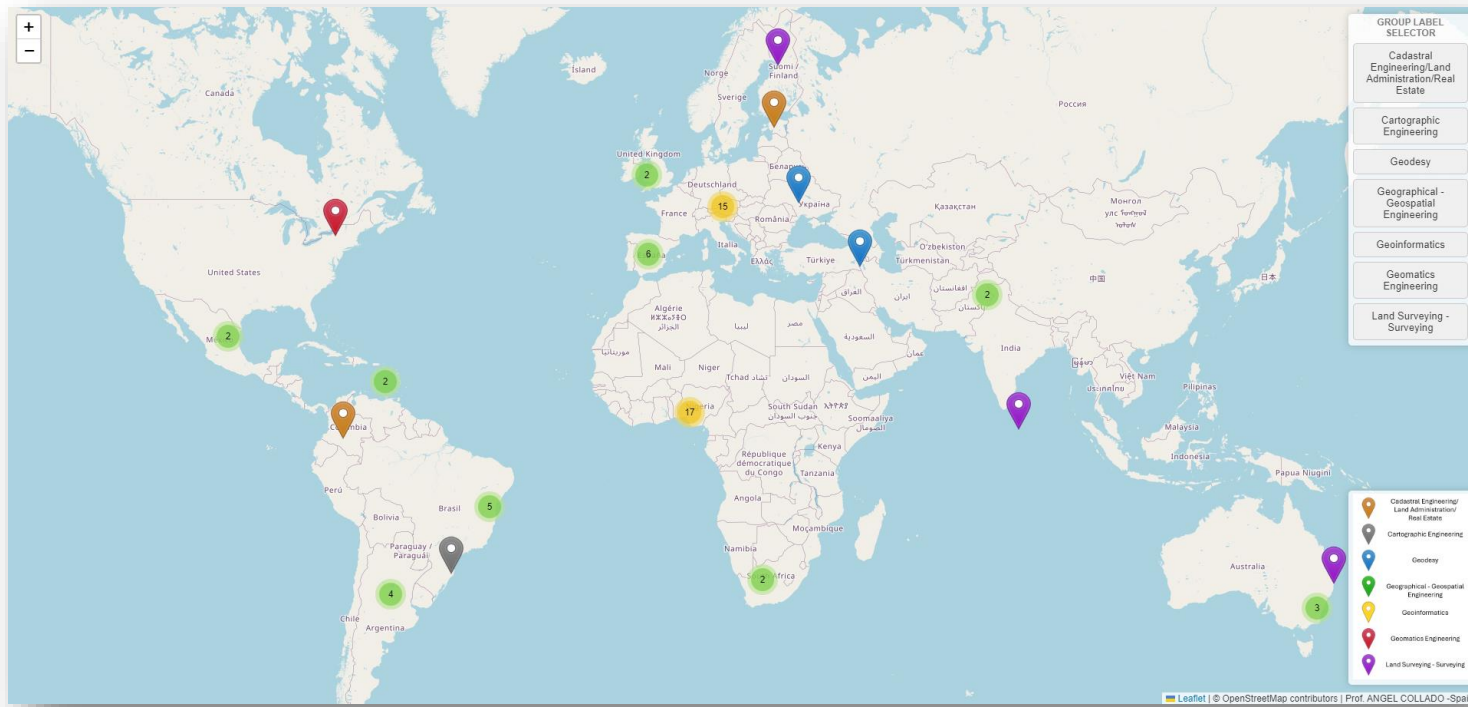


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BY A GLOBAL ONLINE SURVEY



WORLDWIDE MAP VIEWER INVENTORY OF GEOMATICS STUDIES

METODOLOGY
 GLOBAL ONLINE SURVEY



ENGLISH

- Basic information about the university and contact details
- Questions about the Bachelor's Degree and its curriculum
- Question about the professional requirements in your country
- Personal opinions about the current and future situation of our discipline
- Personal opinions about the meaning and relationship of different disciplines related to our profession.

Angel Collado & Rosario Casanova & Dimo Todorovski

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WORLDWIDE MAP VIEWER INVENTORY OF GEOMATICS STUDIES

+ 350 Universities

(Asia and Africa in progress)

Manual search on the
 Internet, university by
 university

https://professorangelcolladospain.on.driv.tw/Geomatics_MAP/

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But, who am I?



PROF. ANGEL COLLADO

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PhD Candidate in Geomatics Engineering
(Land Administration) and in Agricultural
Engineering (Precision Viticulture)

Teaching and research staff of Geomatics
Engineering [**Youngest Geomatics
Professor in Spain**]

(Sociological Geomatics &
Academic/Historical Geomatics)



Awards



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But, who am I?



PROF. ANGEL COLLADO

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FIG YSN Academic Affairs Officer
(FIG Commission 2)

Social Media Officer of FIG
Commission 7 *(Land Administration)*



Spanish Young
Representative in APPAT



Spanish FIG Representative *(Comm. 2 & 7)*

Spanish Academic Affairs Officer

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