

LOGGING AND EXTRACTION MONITORING UNIT

GONZALO TAPIA KOCH



20°S

30°S

...

50°S

KEY PROBLEMS









GEOGRAPHICAL COVERAGE



RESTRICTED ACCESS



IT MEANS...

'FOREST' IN MAPUDUNGUN (INDIGENOUS LANGUAGE)
AND ALSO LOGGING AND EXTRACTION MONITORING UNIT

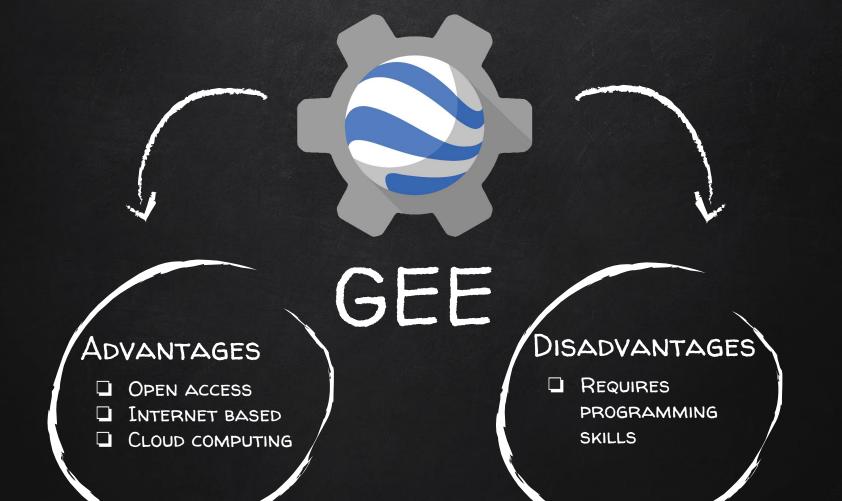
OBJECTIVES (

EFFECTIVENESS

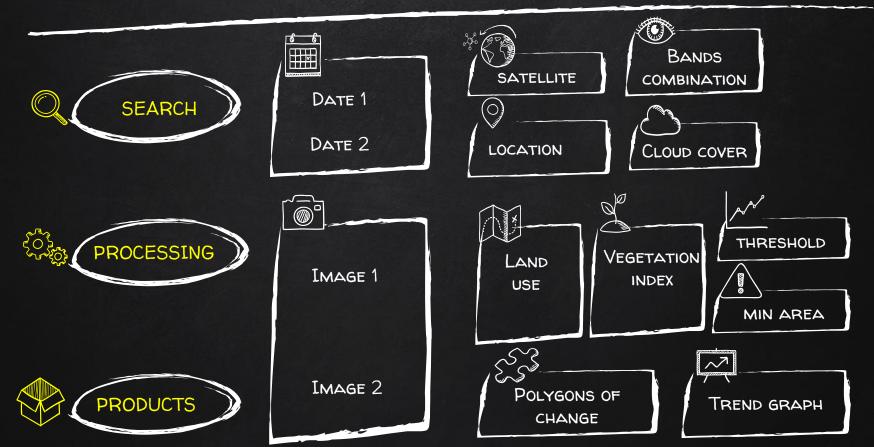
DETECT FOREST COVER Focus OPTIMIZE Loss ON-FIELD RESOURCES **ACTIVITIES** EFFICIENCY



How LEMU works?



COVER CHANGES (LOSSES)







DATES



SATELLITE



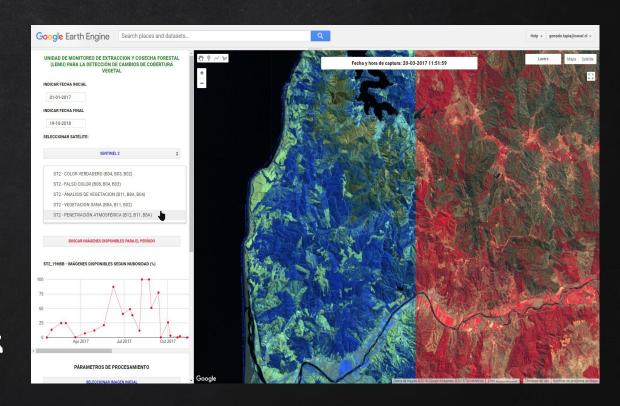
LOCATION



RGB



CLOUD COVER







IMAGES



LAND USE



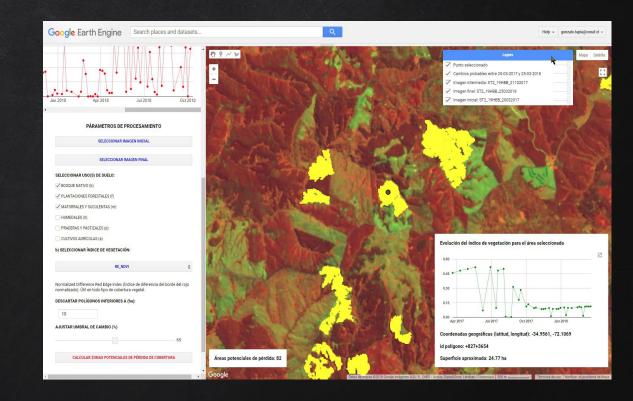
VEG INDEX



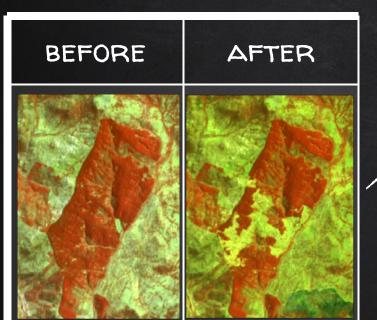
MIN AREA



THRESHOLD



PRODUCTS









.GEOTIFF



S.KMZ, .KML .SHP, .GEOJSON



.CSV, .SVG .PNG

CHALLENGES (F)

- * CLOUD COVER
- * USABILITY
- * ENGAGEMENT
- * WORKFLOW





(C) CLOUD COVER



Jul 2018 WINTER



FEB 2019 SUMMER

- **×** 5 DAY MOSAICS
- X N MONTHS MOSAICS

USABILITY (P)

- * USER CENTERED DESIGN
- * FAST PROCESSING AND RESULTS



LESS THAN 1 MIN





ENGAGEMENT



- ¥ USERS GOT INVOLVED SINCE START
- X ONE INSTRUCTOR ON EACH REGION
- * TRAINING SESSIONS
 AND USER MANUAL

120 USERS

WORKFLOW (%)



- * FITS WITH PROCEDURES ON PLANNING STAGE
- * It's Complementary WITH UAV



2018 RESULTS (1)



100% REGIONS - 66% PROVINCES

2,990 HA - 305 AREAS

EFFECTIVENESS





LEMU.FISCALIZACION@CONAF.CL

