PROJECT: GPS GUIDANCE AUGMENTATION SYSTEM FOR LOW DENSITY COLOMBIAN **AIRPORTS**



PNA COL: Air navigation Plan for Colombia

GEORED (50 stations)

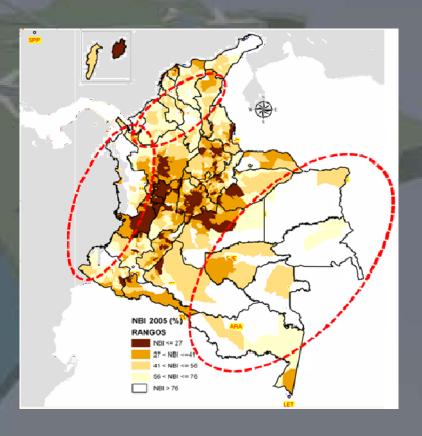
PNNS: National Satellite Navigation Plan

ISSUES

Remote airports in the jungle Unique mean to access those regions

Few or non navaids for approach and landing in domestic airports

No coverage in lower airspace



CURRENT SITUATION

Global

IGWG, International GBAS Working Group.

CAT II y CAT III under analysis

GBAS CAT I available certified by FAA (waivers)

Region

Brasil – FAA plans HONEYWELL CAT I in **Galeão** and **Santos Dumont** (2011).

Chile - FAA analysis GBAS on 12 airports. CAT I HONEYWELL in Santiago (2012).

Argentine – INVAP/Argentine Air Force / La Plata National University (2011)

STRENGTH IN COLOMBIA

Colombian National University UNAL - AA+ Duff & Phelps.

187 Agreements with international universities

Math models

Software development

Materials test.

GENERAL GOAL

Modeling, evaluation and simulation a technological solution for GPS GUIDANCE AUGMENTATION SYSTEM BASED ON GEODETIC REFERENCE NETWORK



Annex 10 ICAO

RTCA

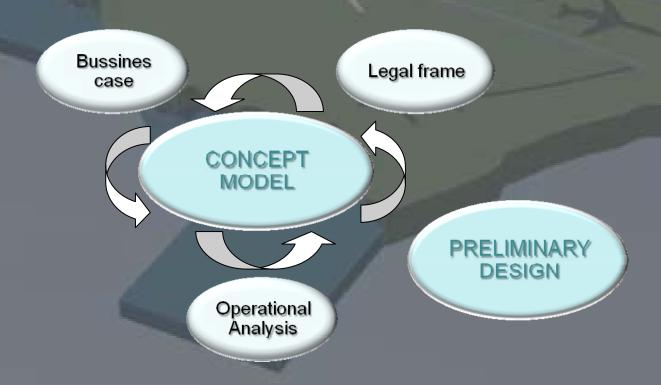
ASTM

FAA ACs

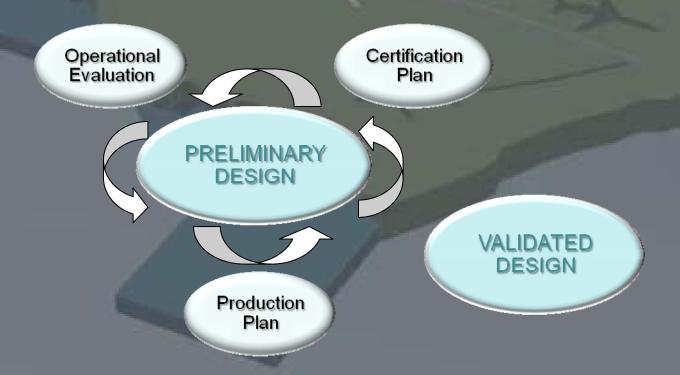
EUROCONTROL Docs

International Agreements

SPECIFIC GOALS PHASE 1 ANALYSIS AND DESIGN



SPECIFIC GOALS PHASE 2 SIMULATION



SPECIFIC GOALS PHASE 3 PRE OPERATIONAL

