

CELESTE

Galileo Cooperation Project
for Latin America

1. SCOPE OF CELESTE

- Galileo Joint Undertaking - Procurement number 4880
- Presence of AENA in Latin America

2. PROJECT OVERVIEW

- Overall logic
- WBS
- Main Activities

3. PROJECT ORGANISATION

- CELESTE Consortium
- Budget Allocation
- AENA's role.

4. SCHEDULING AND STATUS

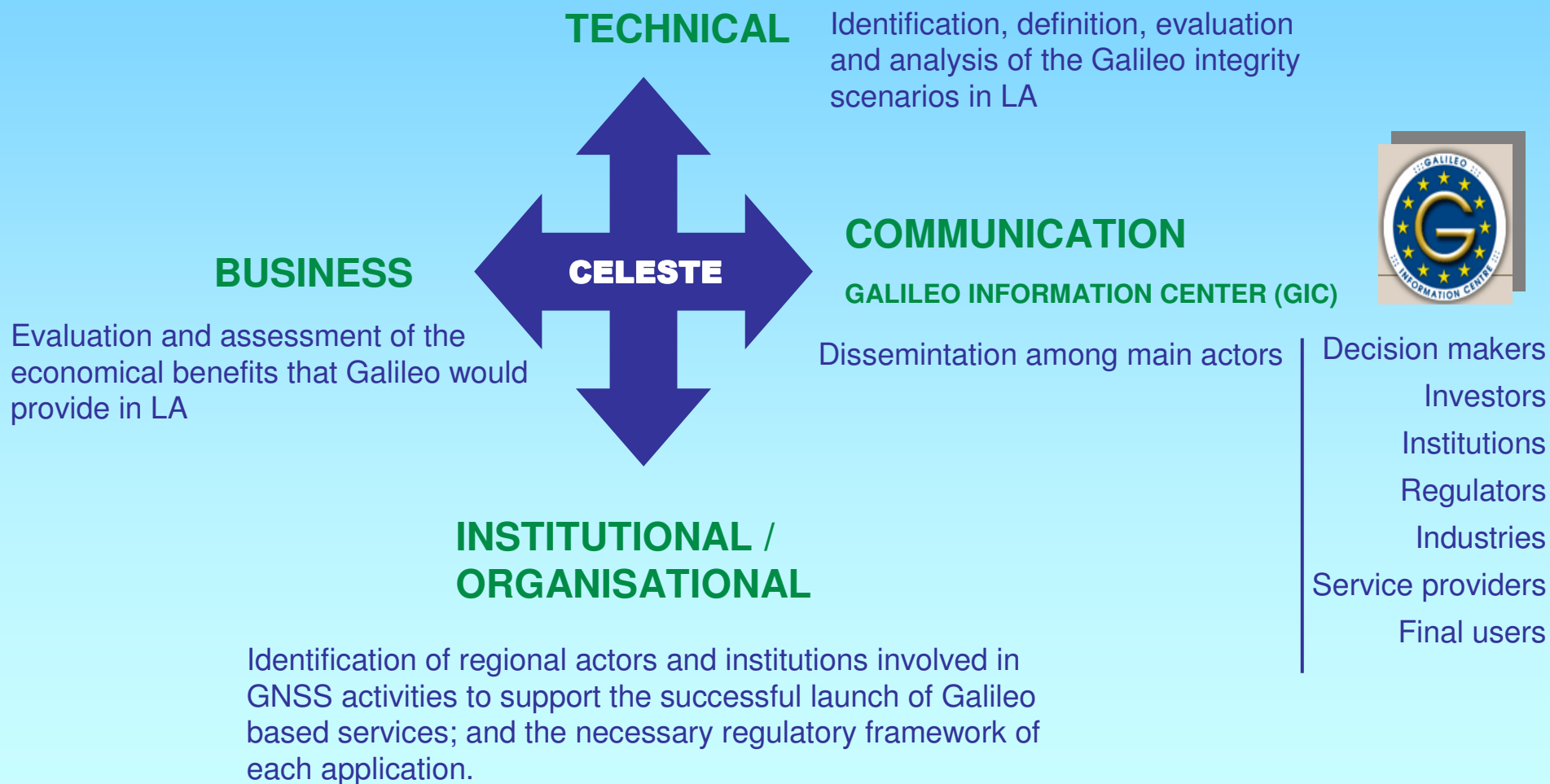
- Gant Diagram
- Comming activities

International Cooperation with Latin America (LA):

- Purpose: Support the **Galileo Supervisory Authority (GSA)** for the integration of the region in the GALILEO Program.
- The aim of CELESTE Project is to foster the **co-operation within Latin America**, providing the guidelines and recommendations to define future activities and projects to be carried out in the region and increasing the **awareness level** on Galileo in Latin America, as well as to promote the **GNSS applications market** in the area to support the **ICAO GNSS Regional Plans**.



GLOBAL ROAD MAP COVERING KEY ASPECTS:

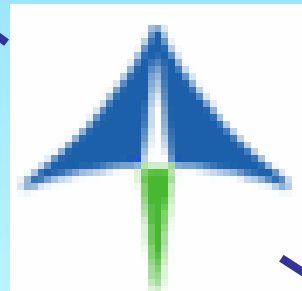


Leadership of AENA in Latin America

The strong participation of AENA in Latin America is a key for the CELESTE project development

Aviation Civil Authorities

Interface Regional SP – GOC
for the commercialisation of
the Galileo services in LA



ICAO-CNS/ATM WG:
CAR/SAM Region

ICAO GREPECAS:
GNSS REGIONAL PLAN

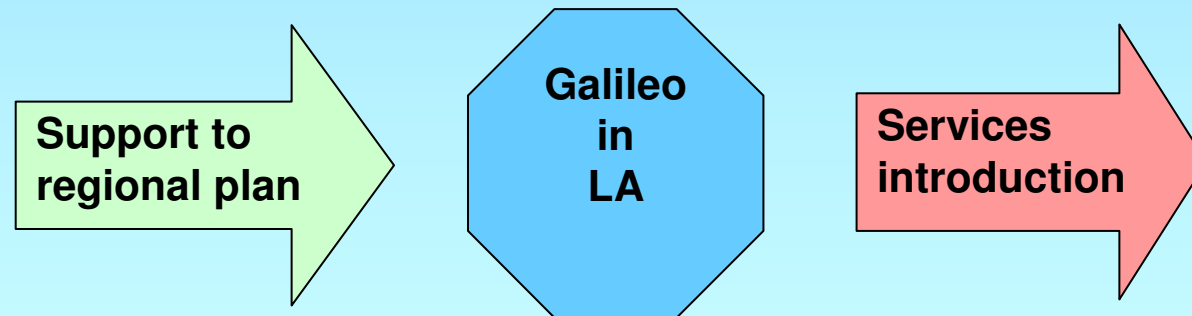
Integration of Galileo in the
GNSS LA Regional Plan

Background Experience in
Latin America Projects:
EDISA (EC)
ICAO RLA/03/902 –
Promotion of EGNOS in LA

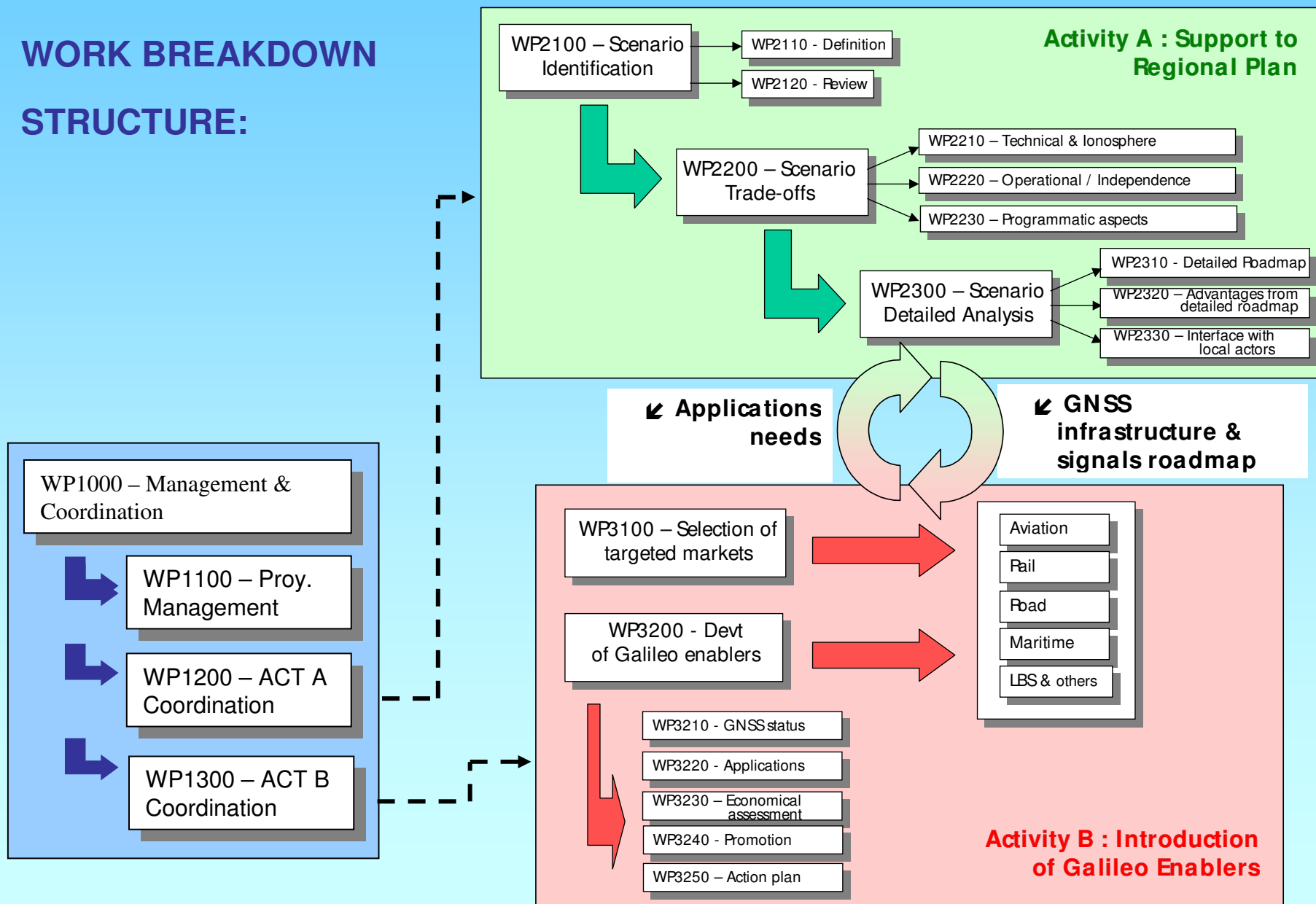
OVERALL LOGIC:

This project focuses on **two independent activities**

- **Support to Regional Plan - Activity A**
- **Galileo Services Introduction - Activity B**

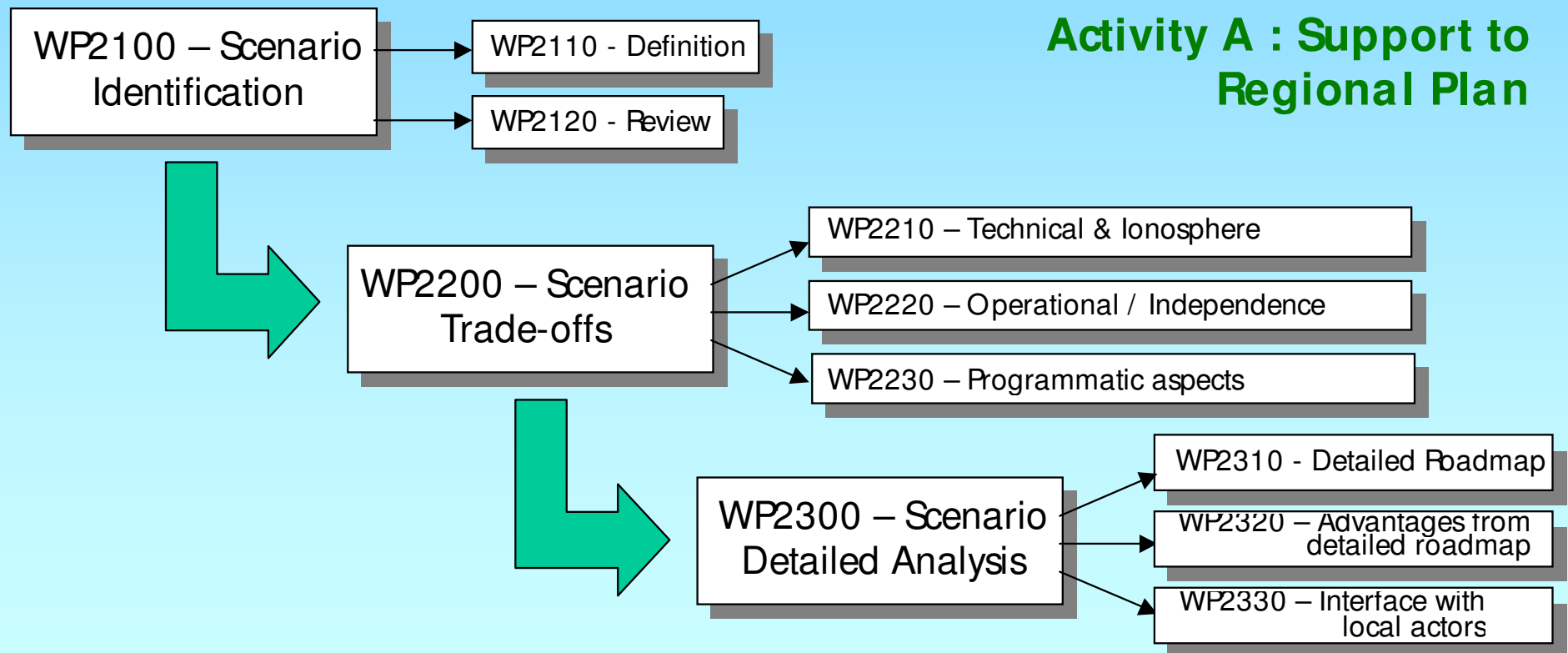


WORK BREAKDOWN STRUCTURE:



ACTIVITY A: Support to Regional Plan

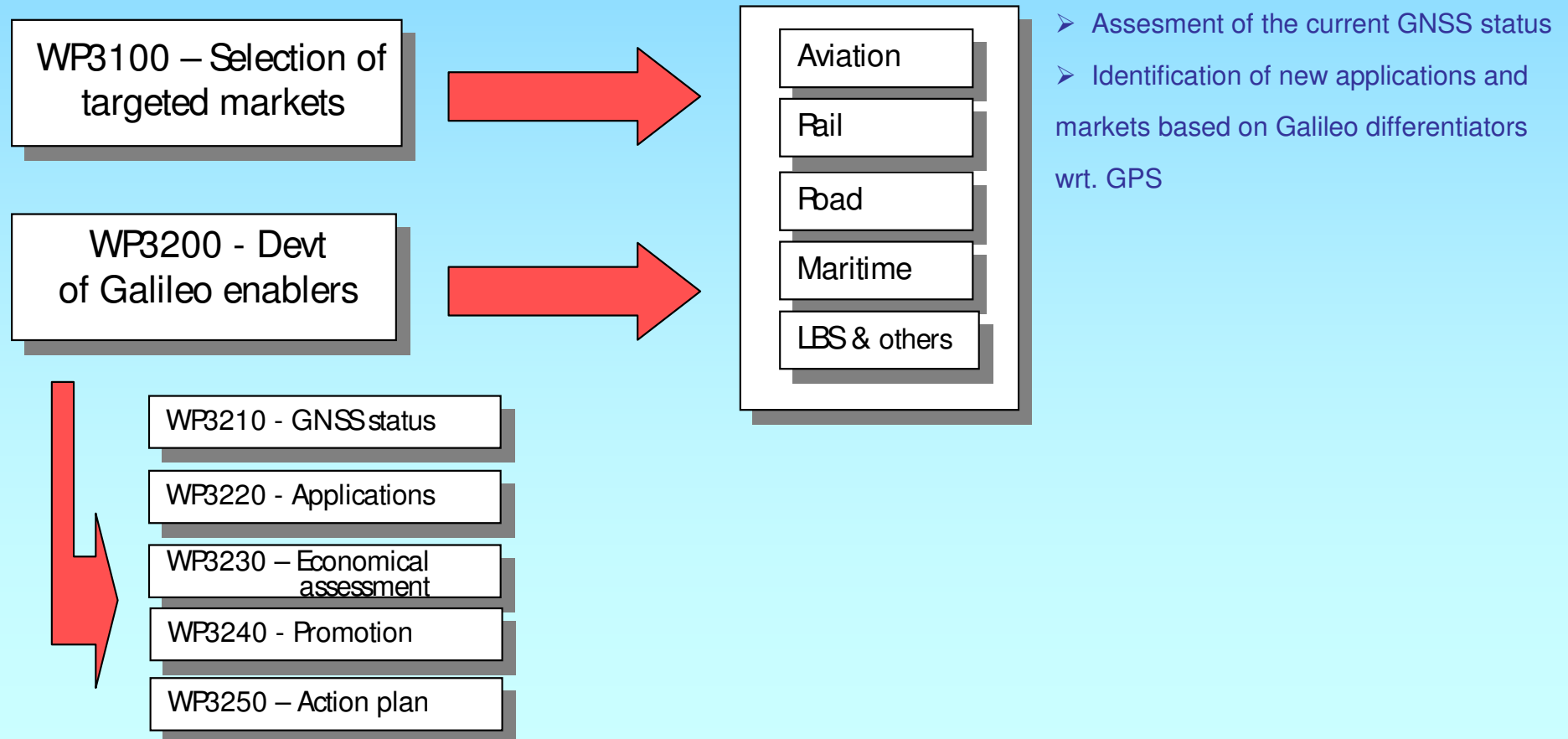
Focused on the identification, definition, trade-off and detailed analysis of **Galileo integrity scenarios**, based on both Galileo ERIS concept and SBAS concept: MRS.



ACTIVITY B: Galileo Services Introduction

Aimed at the analysis of the necessary steps for the migration of the current GPS based GNSS applications, to a Galileo and SBAS based.

Focused on two aspects:

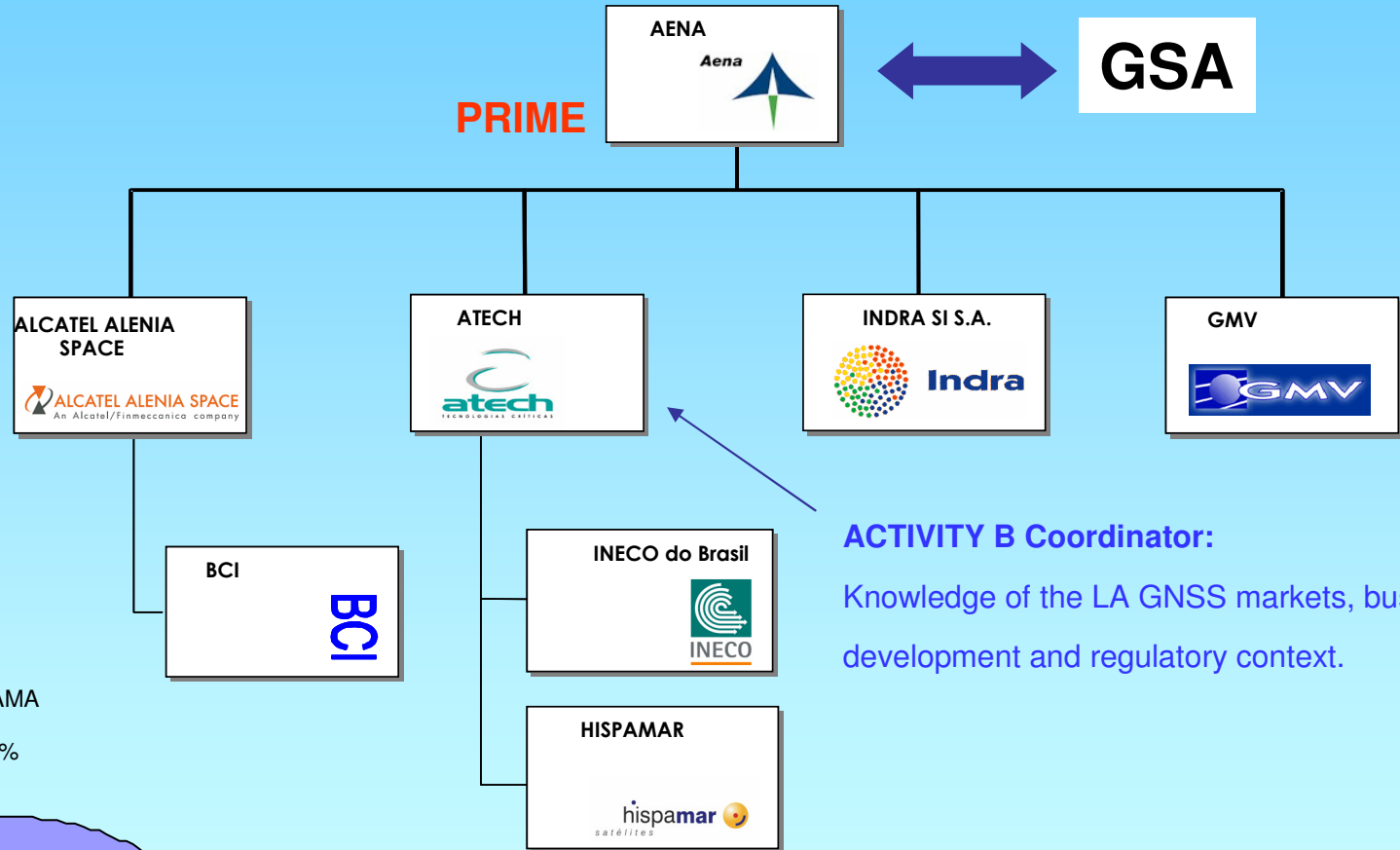


CELESTE Consortium

8 Companies

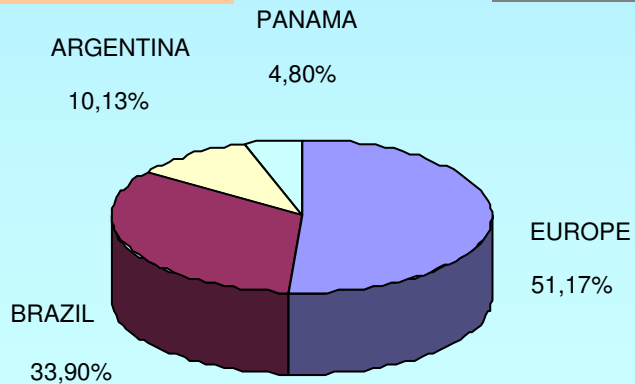
EU/LA basis

ACTIVITY A Coordinator:
Sound Tech Experience



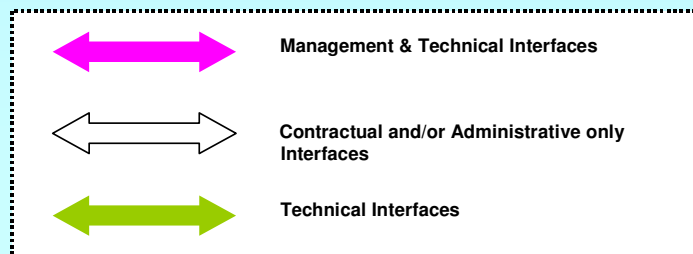
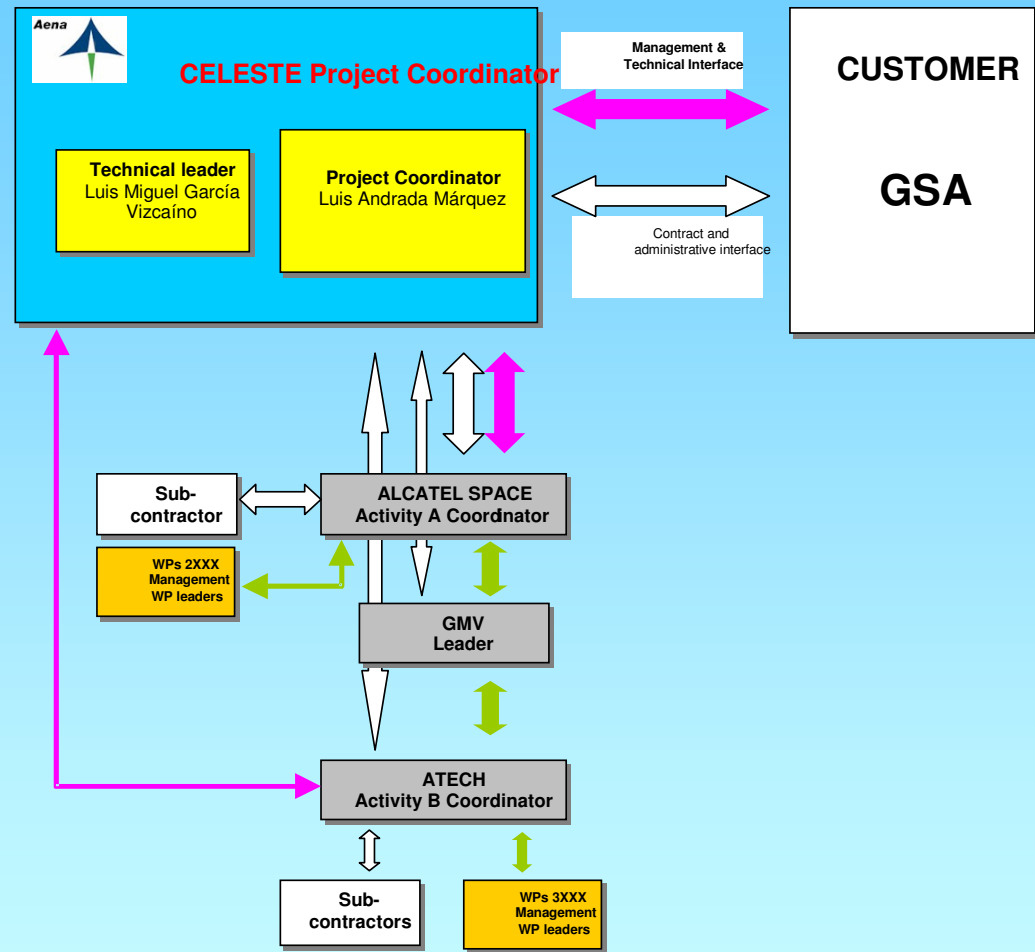
ACTIVITY B Coordinator:
Knowledge of the LA GNSS markets, bussiness development and regulatory context.

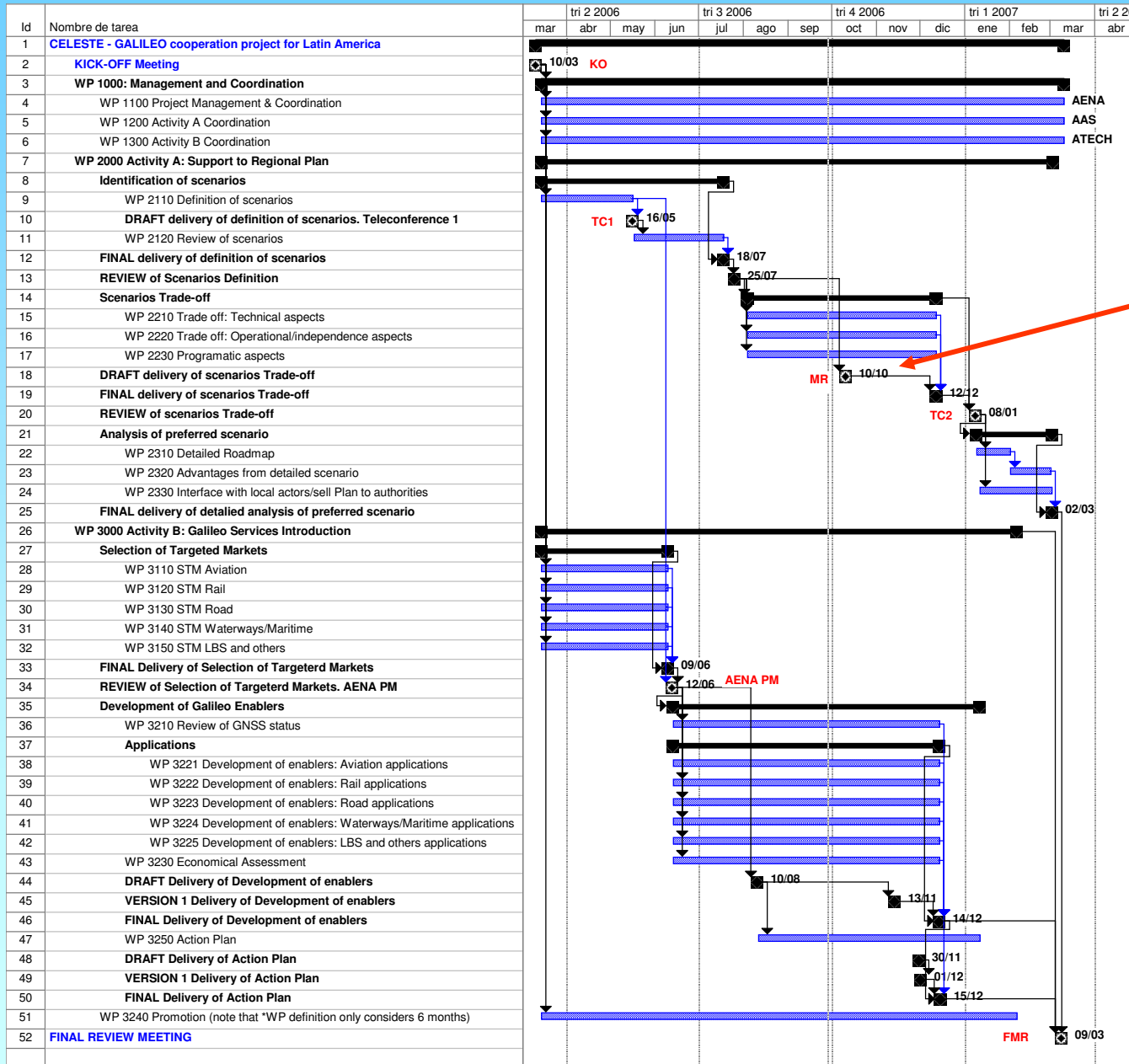
Budget Allocation



AENA as Prime Contractor

- Project Management
- Coordination with
 - GJU (Customer)
 - GIC
 - Other partners





Duration 12 months

Mid-term

CCN Proposal



Extension of 18 months

				Budget (K€)	Aena	Alcatel	BCI	ATECH	GMV	Ineco DB	Intra LA	Hispame
WP1000	Project Management&Coordination			75	31,06	23,45	0,00	20,55	0,000	0,00	0,00	0,00
	WP1100		Project Management (updated management reserve included)	31	31,06							
	WP1200		Support to Regional Plan Coordinaton	23		23,45						
	WP1300		Galileo Services Introduction Coordination	21				20,55				
WP2000	Support to Regional Plan			140	22,19	38,27	9,49	8,63	46,083	0,00	15,00	0,00
	WP2100		Identification of Scenarios	17	0,00	0,00	0,00	0,00	11,999	0,00	5,00	0,00
		WP2110	Writer	12					11,999			
		WP2120	Reviewer	5							5,00	
	WP2200		Trade-Offs	57	22,19	14,68	0,00	4,73	15,110	0,00	0,00	0,00
		WP2210	Technical / ionosphere Aspects	15					15,110			
				-								
		WP2220	Operational / Independence level Aspects	22	22,19							
				-								
		WP2230	Programmatic Aspects	5				4,73				
				-								
	WP2300		Detailed Analysis	66	0,00	23,60	9,49	3,91	18,974	0,00	10,00	0,00
		WP2310	Detail roadmap	26				3,91	11,899		10,00	
				-								
		WP2320	Advantages from detailed roadmap	7					7,075			
				-								
		WP2330	Interface w local actors/Sell plan to regional auth	9			9,49					
				-								
WP3000	Galileo Services Introduction			185	12,26	10,52	9,49	54,81	23,260	39,94	25,00	10,00
	WP3100		Selection of Targeted Markets	50	12,26	0,00	0,00	9,22	8,373	10,18	10,00	0,00
		WP3110	Aviation	12	12,26							
		WP3120	Rail	10						10,18		
		WP3130	Road	8					8,373			
		WP3140	Waterways/maritime	10							10,00	
		WP3150	LBS and Others	9				9,22				
	WP3200		Development of Galileo Enablers	135	0,00	10,52	9,49	45,59	14,887	29,76	15,00	10,00
		WP3210	GNSS Status	10								10,00
		WP3220	Applications	-								
		WP3221	Aviation	15						15,39		
		WP3222	Rail	14						14,37		
		WP3223	Road	15					14,887			
		WP3224	Waterways/Maritime	15							15,00	
		WP3225	LBS and Others	16				16,44				
		WP3230	Economical Assessment	9				8,87				
		WP3240	Promotion	18			9,49	8,66				
		WP3250	Action Plan	22		10,52		11,62				
				-								
TOTAL				400	65,51	72,24	18,98	83,99	69,34	39,94	40,00	10,00

Thank you