

ACAC GNSS STRATEGY OVERVIEW

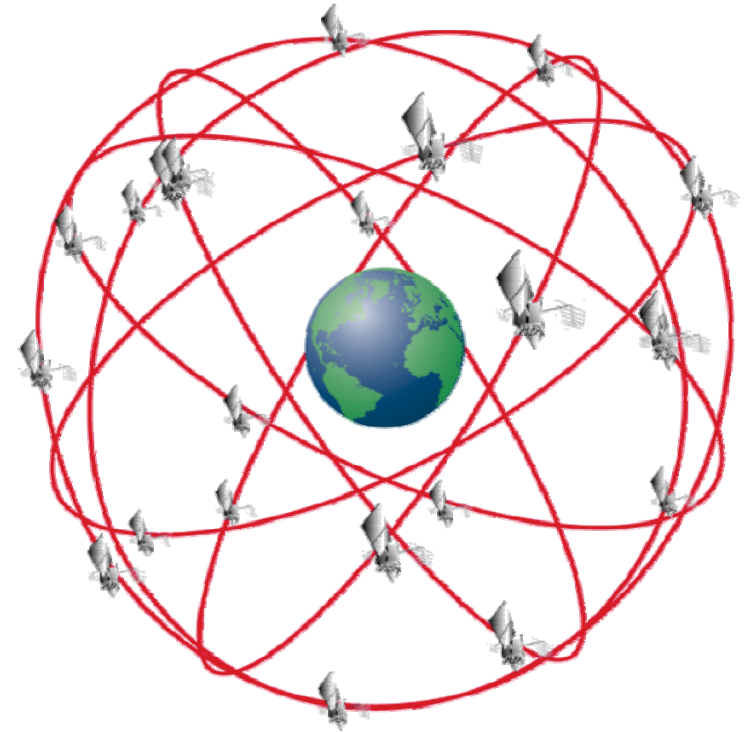
ACAC/ICAO-MID GNSS WS
Rabat- Morocco 7&8 November 2017



Presentation Outline



1. ACAC GNSS objectives
2. ACAC GNSS Strategy
3. ACAC GNSS Achievements
4. CONCLUSION



ACAC GNSS OBJECTIVES



1. Develop a GNSS training policy, programme and plan.
2. Support States to reach the regional, and national PBN Objective.
3. Ensure The coverage of **the whole ACAC states**

ACAC GNSS STRATEGY



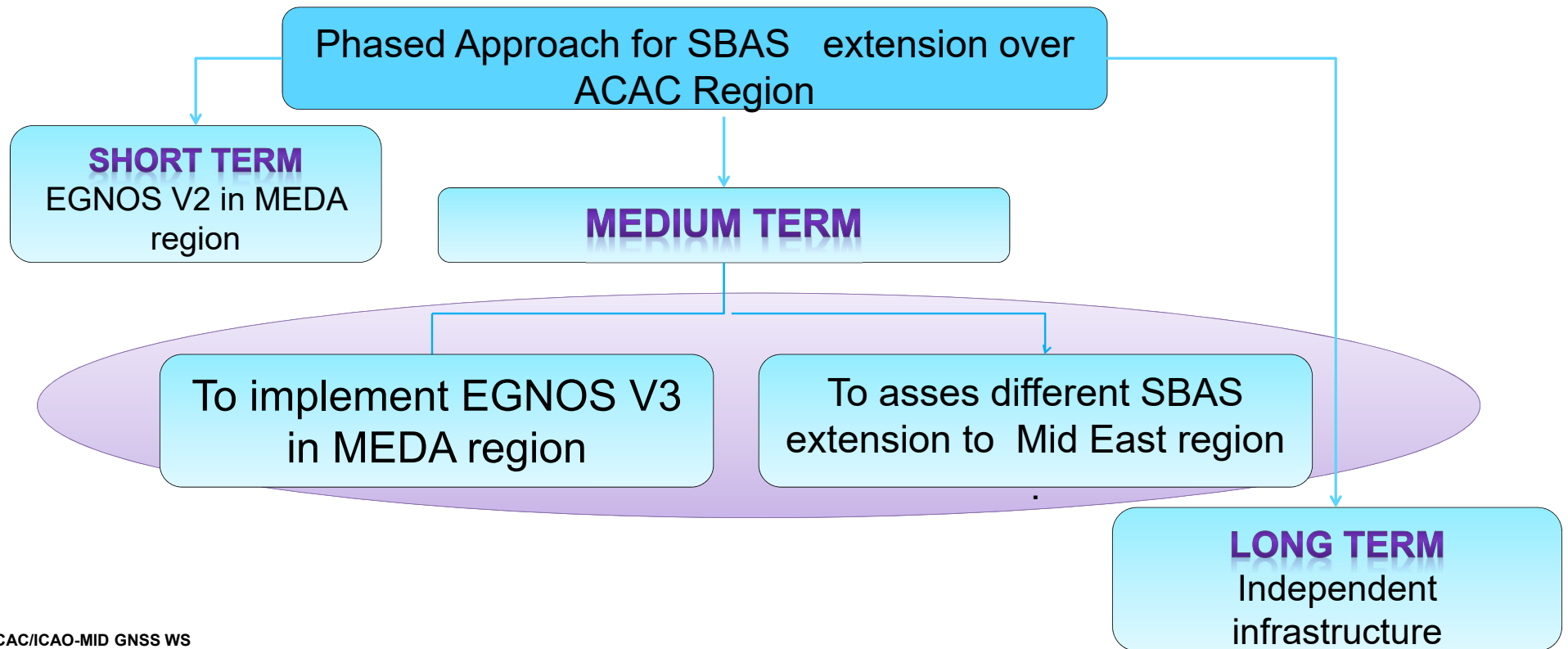
REGIONAL TRANSPORT ACTION PLAN FOR THE MEDITERRANEAN REGION (RTAP) 2014 – 2020

Action 18: Implementation of GNSS Aviation

The collaboration with Mediterranean Partners in the GNSS (Global Navigation Satellite System) projects should materialise through:

- Extension of the EGNOS¹¹ Safety of Life signal via infrastructure deployment to achieve coverage of the Mediterranean Partners airspace. Active support from Mediterranean Partners in achieving rapid installation of EGNOS RIMS¹² in their territories will be key, as well as enabling their smooth operations.
- Signature of International Agreement: non-EU countries can enter in such agreements to participate to EGNOS programme. A 'Horizontal International Agreement', could be envisaged, similar to air transport models. This agreement will define among other, governance, liability, funding. The definition of the role of EASA will be also part of such agreement.
- Signature of EGNOS Working Agreement (non-EU EWA): will have to be established between the local ANSP and the European EGNOS Service Provider (currently ESSP) to provide for all operational needs required for actual service provision.
- Adoption of ICAO provisions in relation to GNSS.
- Elaboration and implementation of the identified GNSS National Strategy: for civil aviation and other transport domains.

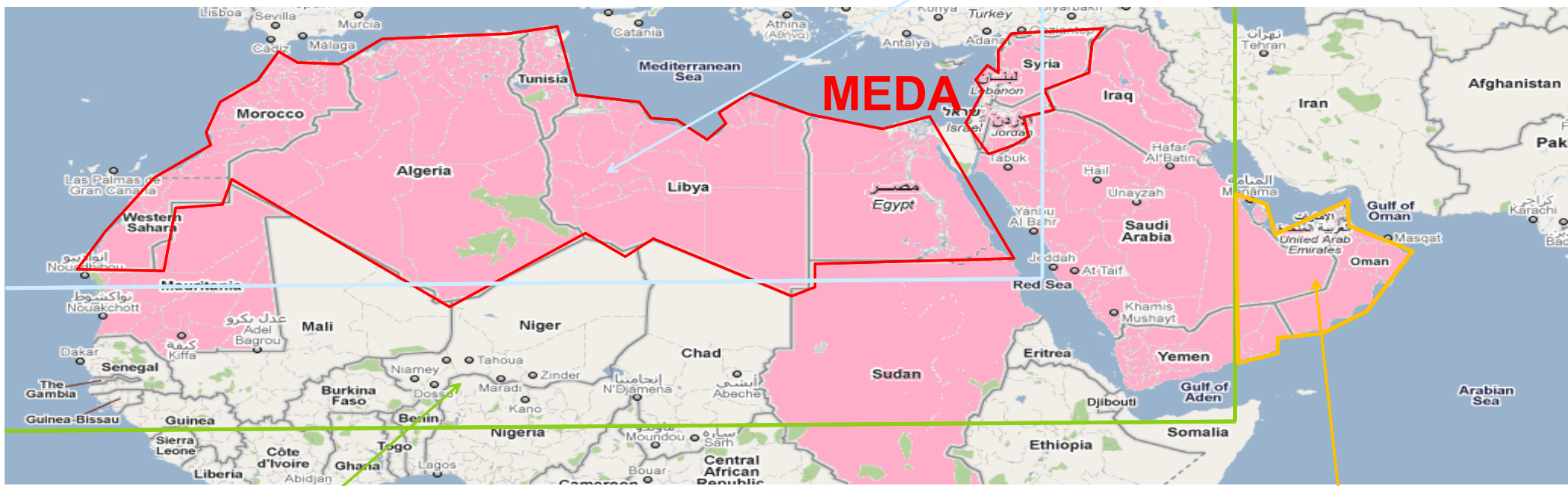
ACAC GNSS strategies v1(2014)



ACAC GNSS Approach



Current possible coverage area

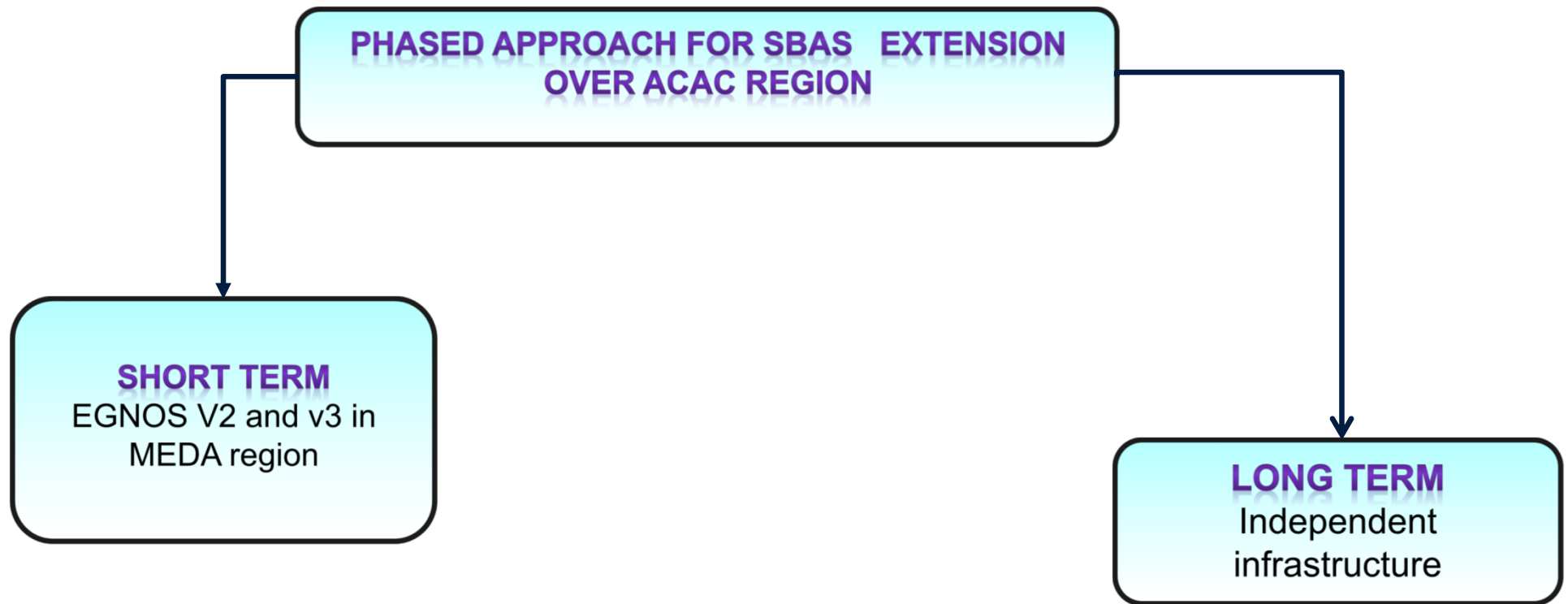


Medium term possible coverage area based V2 or V3 of EGNOS

This area can not be covered with EGNOS

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ACAC GNSS Strategies v2(2016)



ACAC Executive Council decision

(30 Oct 2014)



Decided **to mandate ACAC** to play a coordinating role in the negotiations between the **European side and ACAC member States** wishing to use of the European EGNOS service in their respective airspace.

ACAC Executive Council decision

(15 Mai 2015)



- Activate a joint working group EC-ACAC to monitor the implementation of the Road map and action plan.
- Accentuate the focus on the Short term strategy (MEDA Country) and long term strategy (independent GNSS system).
- Continue the cooperation with the European Commission in order to achieve a global approach taking into account technical, institutional and funding aspect
- Open channel communication and cooperation with EGNOS system in Central and West Africa (JPO), and GAGAN (Indian) SBAS to assess the potential coverage of the East of the Arabian Peninsula.

ACAC ROAD MAP FOR GNSS



2017

Limited services

EGNOS V2 in
MEDA region

2022

Full services

To implement
EGNOS V3 in
MEDA region

To assess other
SBAS extension to
Mid East region

2030

Independent
infrastructure

Independent
infrastructure
and system

ACAC ACHIEVEMENTS



METIS Project
To perform a GNSS regional
Awareness, Capacity
Demonstration and
Provision (dele

EGNOS extension study over Arab region:
ARG1: ACAC MEDA Countries
ARG2: ACAC AFI Countries
and ARG3: ACAC Middle East countries

General
cooperation Office
(GEMCO)

Flight trials, performed
at Cairo Airport using
the EGNOS Test
Reference Station
installed in Cairo-Egypt

2002

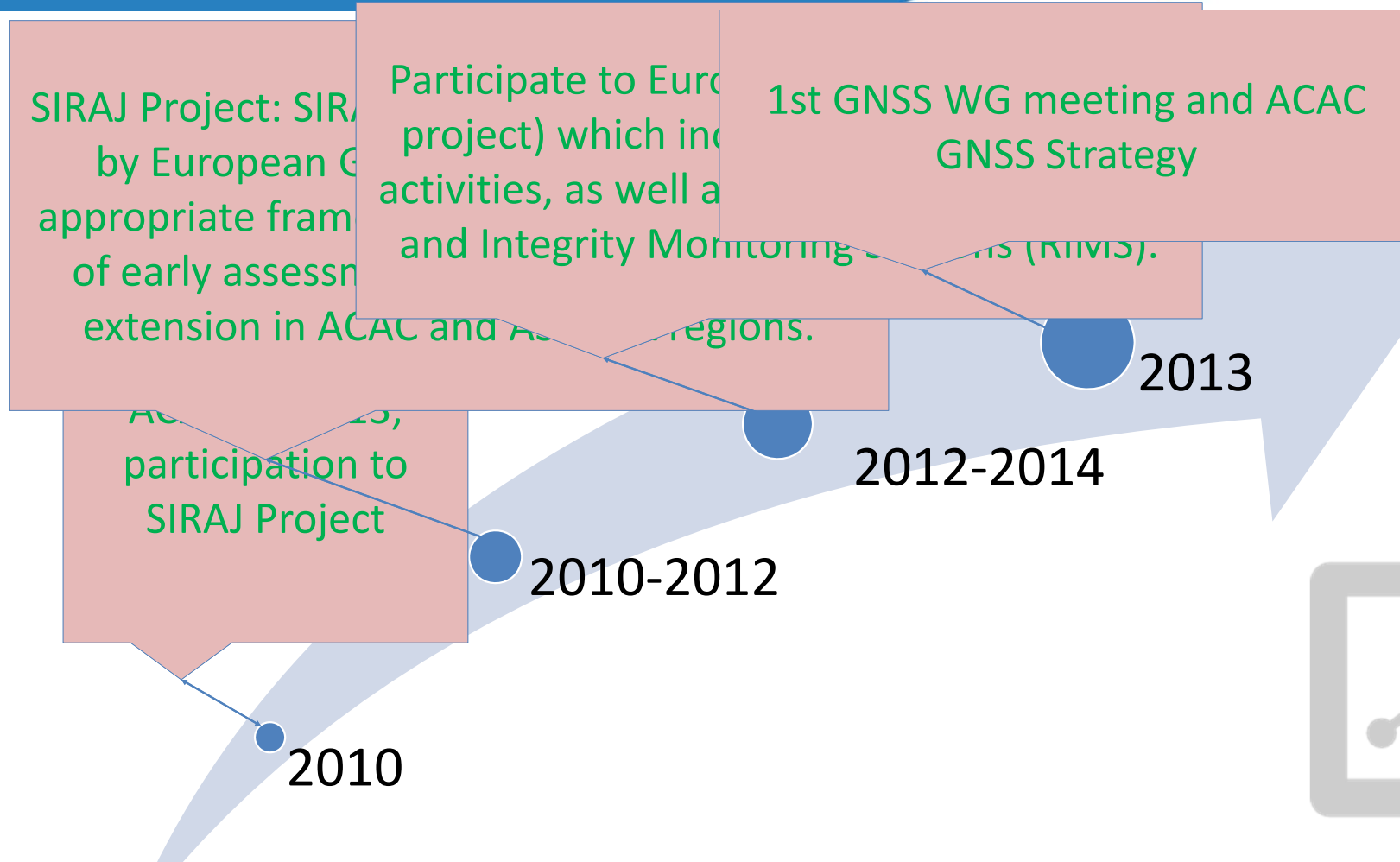
2004

2006-
2009

2008



ACAC ACHIEVEMENTS (2/4)



ACAC ACHIEVEMENTS (3/4)



Establishment of MOU with JPO to initiate cooperation in the framework of implementation of GNSS/SBAS IN africa

Open channel cooperation with GA to assess the potential coverage of the East of the Arabian Peninsula.

2nd G with

EC

May 2017

October 2016

April 2016

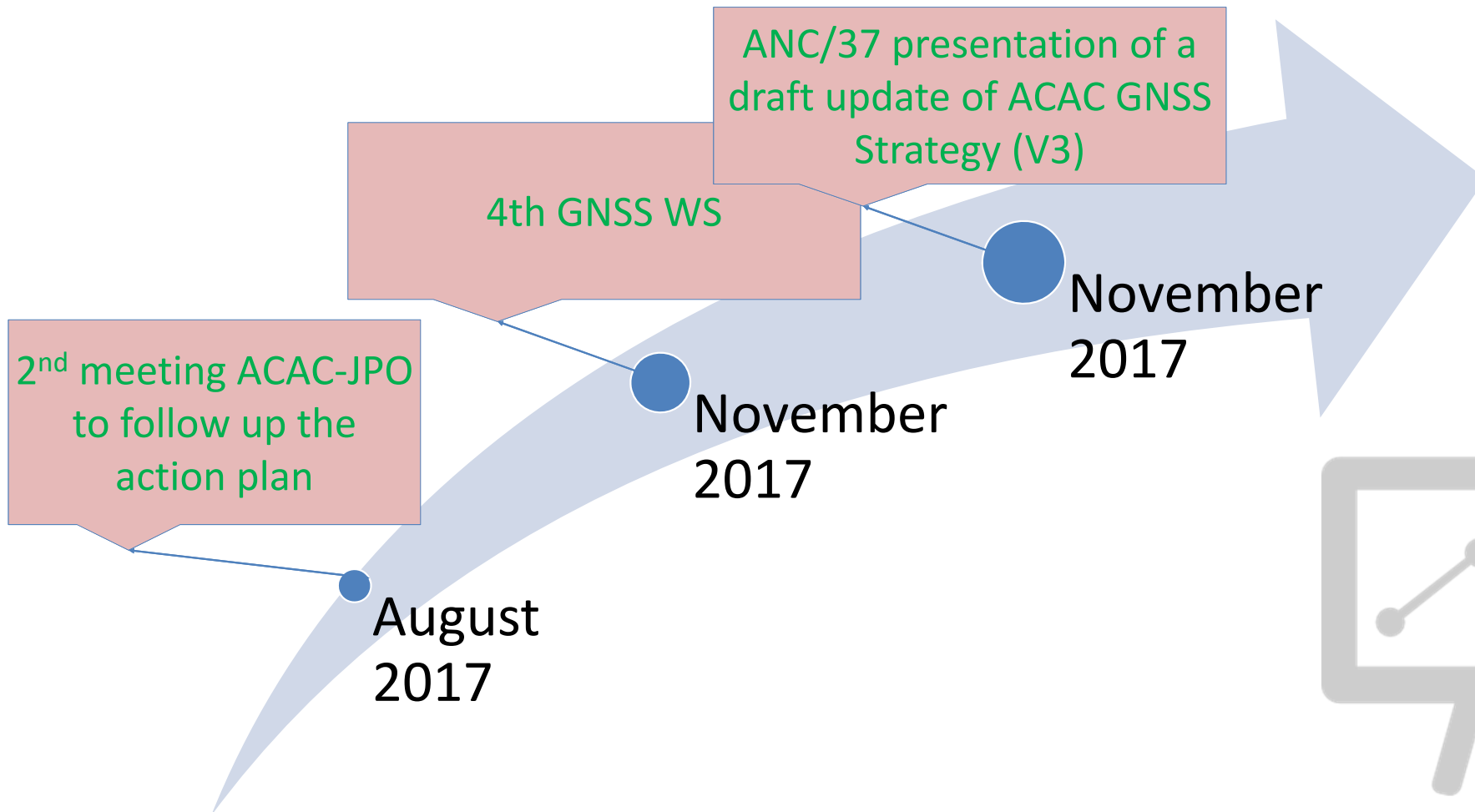
October 2015

2014

2nd GNSS meetings



ACAC ACHIEVEMENTS (4/4)



CONCLUSION & RECOMMENDATIONS



- Continue the cooperation with the European Commission in order to achieve a global approach taking into account technical, institutional and funding aspect
- Increase awareness and promote the benefits of GNSS to the broader community via an interactive narrative of advocacy and education
- Encourage the continuity of Capacity building

CONCLUSION & RECOMMENDATIONS



- Encourage coordination between International and Regional Organizations (ICAO, ACAC, AFCAC, ASECNA, RECs) , development partners, Users and other stakeholders in order to ensure harmonization and integration of regional programmes and initiatives pertaining to GNSS; facilitate State's Decision- Making (e.g. CBA), coordinate GNSS System Design/Architecture and Implementation in the ACAC Region and related institutional issues.

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Thank you for your attention

