



中阿北斗/GNSS中心 (AICTO)

مركز التميز الصيني-العربي بيدو/GNSS بايكتو

China-Arab States BDS/GNSS Center in AICTO



Arab Region Beidou Cooperation on Satellite Navigation

Prospect in the Field of Precision Agriculture

ICG 13th edition- X'ian November 7th 2018



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AICTO

- The Arab ICT Organization «AICTO» is a specialized Arab governmental organization working under the aegis of the league of Arab States, located in Tunis, and has been operational since 1st January 2008.
- AICTO creation resulted from the will of the Arab States to contribute to the development of ICTs and providing the necessary mechanisms to reinforce cooperation between its members while promoting and enriching common strategies and policies to ensure an equitable access to ICT to all Arab citizens



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AICTO Members

- Being a multi-stakeholder technical organization, AICTO membership is open to the Public and private sectors and the Civil Society dealing with ICT and represented in the Arab region and worldwide in the quality of "Associate Member", in addition to the Arab States members of the League of Arab States, represented by their ministries of ICT.



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AICTO Mission

- Providing an open platform for ICT Multi-stakeholders(Public sector, Private sector, Civil Society and specialized bodies) for dialogue, experience & expertise sharing and for technological knowledge transfer

AICTO Vision

- Towards a harmonious Arab digital society based on the creativity and innovation, boosting the Arab-Interregional complementarity and contributing efficiently to the development of the global sustainable digital economy



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Implemented Activities



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Framework

- Bilateral cooperation between League of Arab States and the Public Republic of China
- Cooperation agreement between AICTO and the China Satellite Navigation Office (CSNO) signed in Cairo-Egypt on the 20th of January 2016

Objectives

- Providing an open platform for Arab users to acquire deeper understanding about BeiDou/GNSS technology through a set of activities such as:
 - Training and Regional Capacity Building
 - Exhibition
 - Testing & assessment, etc...
 - Setting pilot projects
 - Boosting GNSS R&D activities in the region
- Strengthen the Arab-Chinese cooperation in the field of Satellite Navigation and related services and applications.



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Deployed Activities

- Inauguration of the China Arab States BDS/GNSS in AICTO – Tunis April 9th 2018





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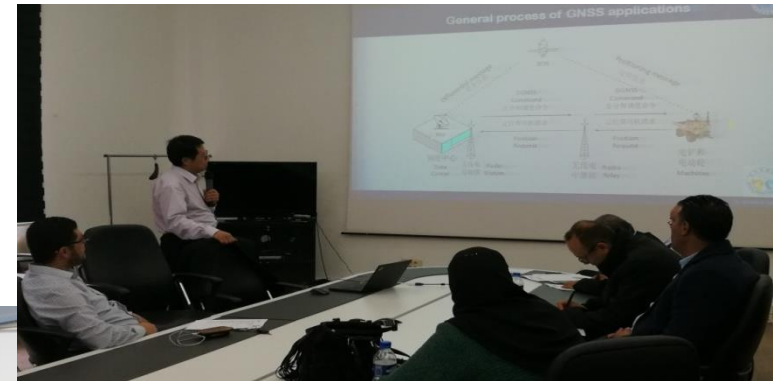
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Deployed Activities

- Regional Workshop: “GNSS and BeiDou System Deep Understanding” during the period from 11th to 13th of April 2018 in Tunis.

Agenda	
Day one : 11 April 2018	1. Principle of GNSS and BeiDou <ul style="list-style-type: none">History of GNSS and BeiDouGNSS/BeiDou Reference SystemsGNSS/BeiDou Measurements, Error Sources & PVT EstimationCurrent Status & Future Development of GNSS/BeiDou 2. Monitoring and Assessment Training
Day two : 12 April 2018	3. Precise Data Process Theory, Methods and Application of GNSS and Beidou <ul style="list-style-type: none">Precise Data Process TheoryPrecise Data Process Methods<ul style="list-style-type: none">Such as real-time differential(RTD), real-time kinematic(RTK), network RTK, precision point positioning(PPP) and PPP-RTK to enhance the accuracy of GNSS and BeiDouApplication of BDS/GNSS augmentation systemConclusion and Suggestion
Day three : 13 April 2018	4. Applications of GNSS and BeiDou <p>Including Applications and implementation of GNSS and BeiDou</p> <ul style="list-style-type: none">In trafficIn aviationIn agricultureIn timingIn remote sensingetc. .





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Deployed Activities

- Regional training Workshop: “GNSS/BeiDou for Smart Agriculture “during the period 24th to 25th of September 2018 in Khartoum.

MONDAY 24TH

15:30 - 18:15	Report 1: National BeiBou Ground Augmentation System and the Applications, Wang Tao
	Report 2: COMBav Products make Agriculture and other industries more precise, Wen Lulu
	Report 3: Beidou System Status and Applications, Yang Dongkai
	Report 4: Trend of Modern Agricultural Machinery Informatization based on ICT and Cloud Computing Service, Zhang Junning
	Report 5: BDS/GNSS Application in precision Agriculture, Wu Caicong

TUESDAY 25TH

14:00 - 17:00 (3hrs)	Training 2: Principles of BDS/GNSS, Wu Falin
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Next in 2019

Arab China Beidou Forum – Second Edition

Venue : Tunis- Tunisia

Period : TBD



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Ways forward

- Deployment testing and assessment actions
- Establishing joint research projects with academia and with R&D labs
- Regional/Sector Trainings



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First Edition of the Interregional Smart Agriculture Forum (ISAF©) - *Khartoum - Republic of Sudan - 24 – 26 September 2018*

- Agriculture development is the most powerful tool to end poverty and to provide job opportunities.
- ***“Agriculture is a vector for sustainable and inclusive growth, as well as the ground/basis of an essential system for ensuring a nutritious, safe and accessible food/alimentation for all” WB.***
- New ICT trends and services are being the driving force for all economies.
- Precision farming using navigation services if one of most powerful driving technological solution for a high effectiveness agriculture





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Advantages of Precision Farming (using navigation solution)

- Among others
 - Reduce labor costs
 - Improve the quality of work
 - Improve land utilization rate
 - Extend the working operation time
 - Enterprises can carry out accurate planning, tracking rate of progress, maintenance records, command and dispatch

Highly improve management efficiency



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Thank you for your attention