



Status and Development Plan of Beidou System and Applications in Transportation

China Transport Telecommunications & Information Center

National Time Service Center Chinese Academy Of Sciences

March 2018

Contents



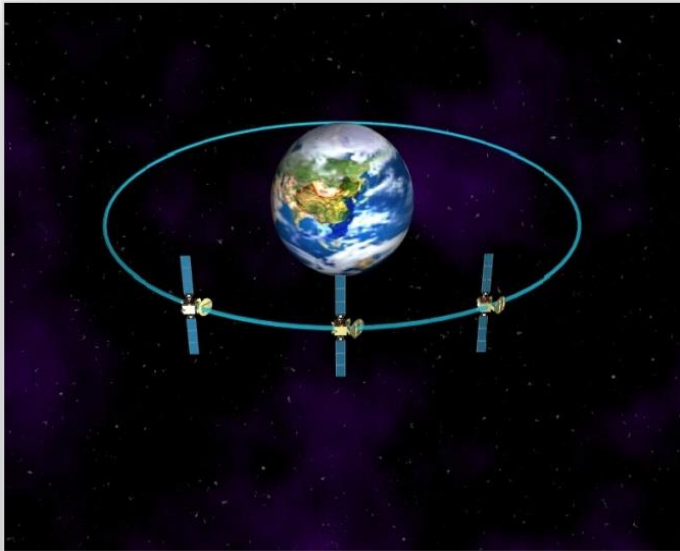
**Introduction
of BDS**



**Current
Development
of BDS in
transportation**

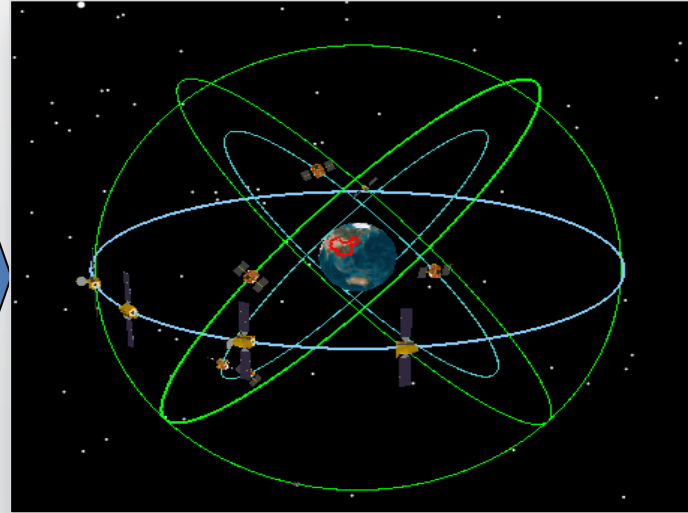
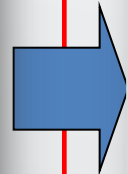


**Future of BDS in
transportation**



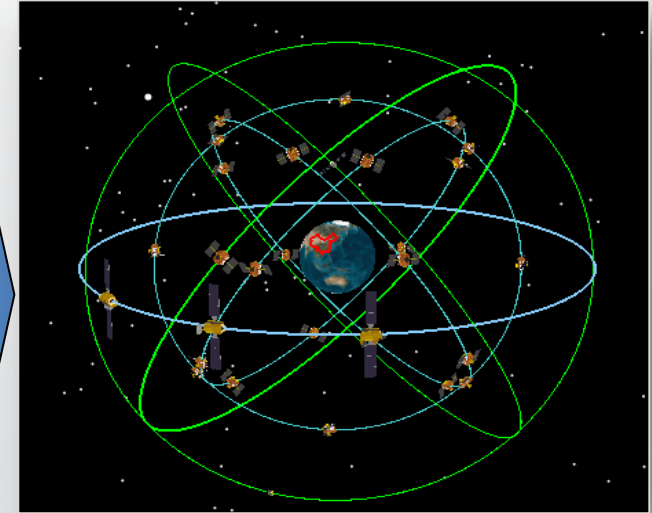
Step I (2003)

Constructed



Step II (2012)

Constructed



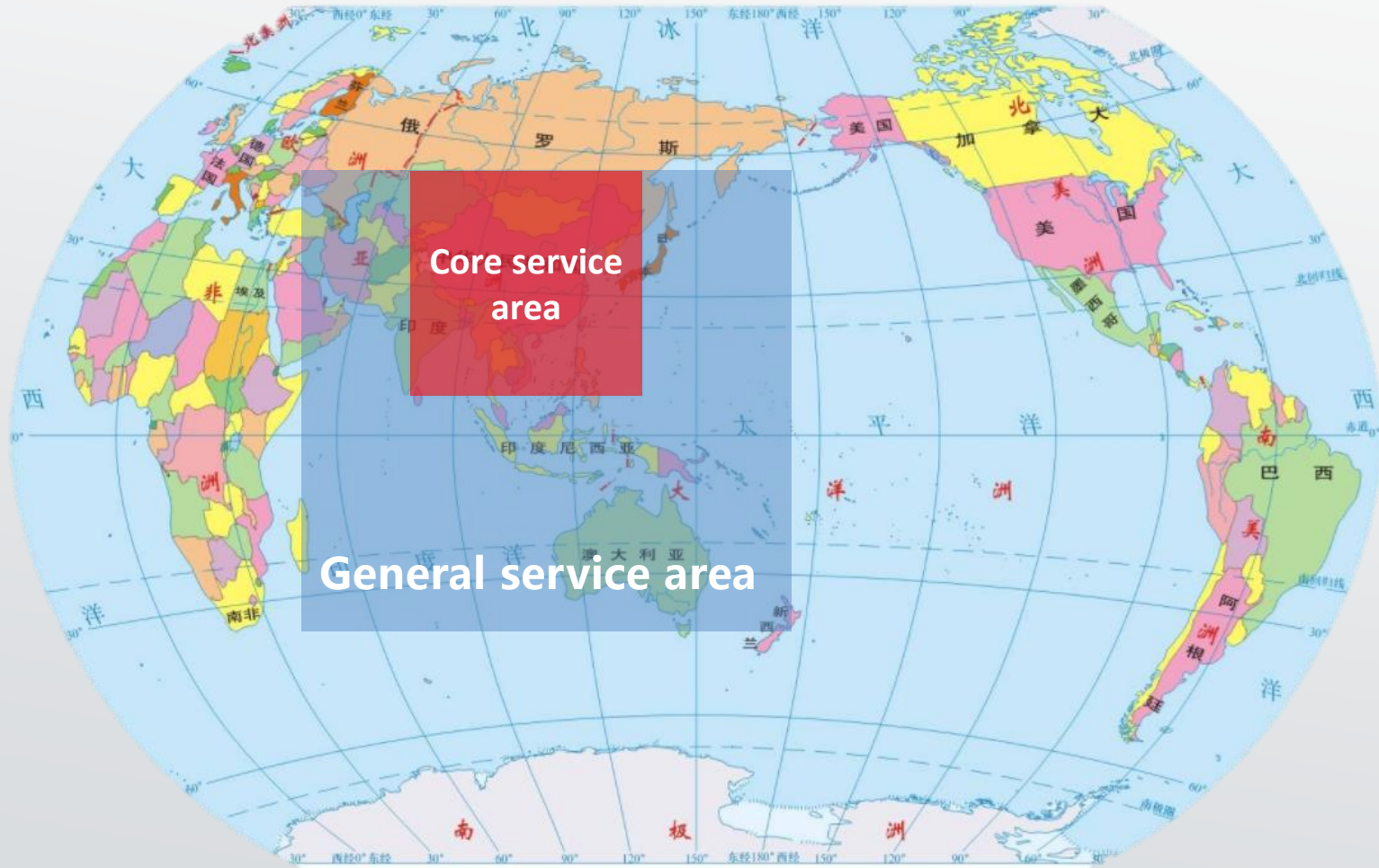
Step III (2020)

Under construction

Transportation is always the most important user of BDS.



Current services of BDS

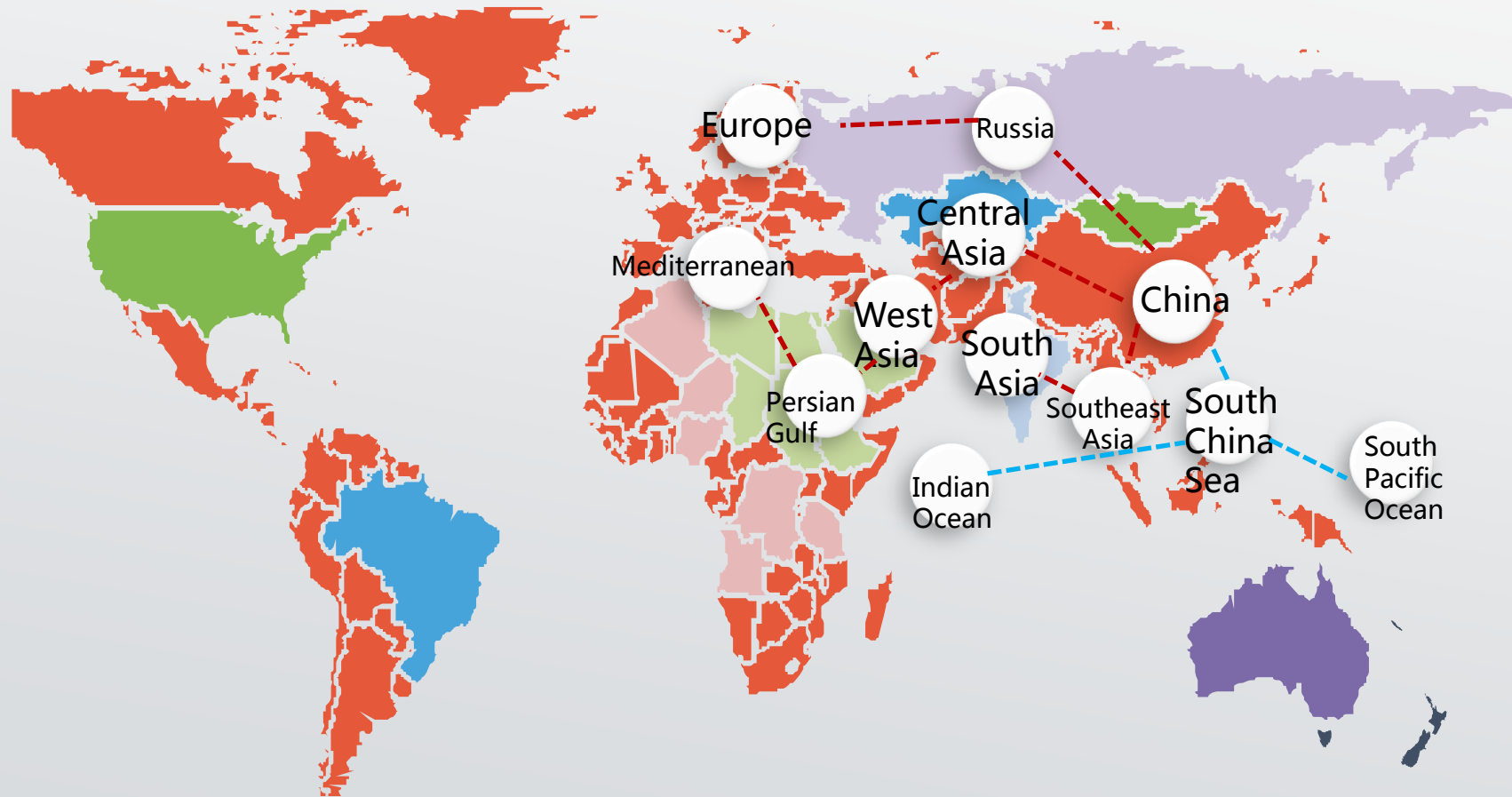


Currently, BDS provides regional services in the Asia-pacific area with 10 meters position accuracy.

Around China, BDS provides the short message services (RDSS), which is a very useful function for transportation.

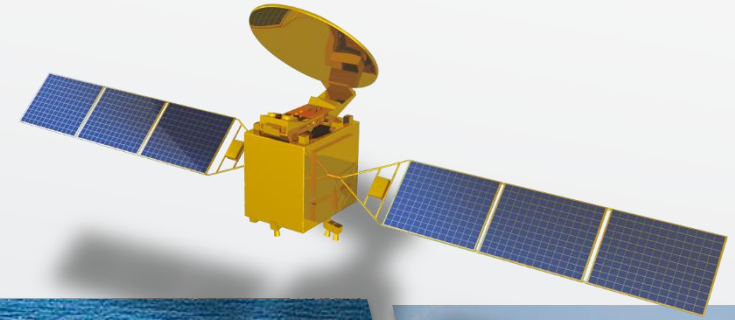


BDS will provide services for the countries along the "One Belt and One Road" region in 2018 and global service in 2020.



Transportation is an important area of BDS applications

Transportation is the largest industrial user of BDS. Some demonstration projects has been supported to provide better service for user.



BDS applications for road safety



In 2011, the "Key Transport Process Monitoring and Management Service System Project" was launched. Now, over 5 million vehicles have been connected to enhance the level of road safety.

全国道路货运车辆公共监管与服务平台

首页 | 车辆监管 | 审车管理 | 信息发布 | 查询统计 | 系统管理 | 用户注册 | 修改密码 | 帮助

全国接入平台车辆
共计: **05063232** 辆

平台数据概览
累计接收轨迹数据共 **27217.166** 亿条
货车行驶里程累计共 **6654** 亿公里 | 已下发车机提示 **47** 亿条

安全监控 今日已处理违规驾驶行为 **1561163** 起

车辆信息	违规时间	违规类型	状态
苏J****6	19:50:15	超速行驶	平台已下发提示
豫R****8	19:50:15	超速行驶	平台已下发提示
川K****7	19:50:15	超速行驶	平台已下发提示
冀G****7	19:50:15	疲劳驾驶	平台已下发提示
桂C****1	19:50:16	超速行驶	平台已下发提示
冀B****C	19:50:16	超速行驶	平台已下发提示
辽P****6	19:50:16	超速行驶	平台已下发提示
冀G****7	18:55:36	疲劳驾驶	违规行为已纠正
冀E****7	19:16:35	疲劳驾驶	违规行为已纠正

入网车辆数 当日报警车辆数

入网车辆数 今日在线 当日入网

新疆 83600 | 甘肃 75743 | 青海 17115 | 西藏 0 | 四川 181148 | 重庆 0 | 贵州 125350 | 云南 101681 | 广西 139440 | 海南 9996 | 内蒙古 75239 | 山西 270429 | 陕西 126531 | 宁夏 58986 | 湖北 136081 | 湖南 111356 | 江西 198734 | 福建 12047 | 安徽 58355 | 浙江 342199 | 广东 200666 | 山东 555519 | 河南 387696 | 河北 559527 | 天津 73650 | 北京 58355 | 上海 360186 | 江苏 44407 | 辽宁 225154 | 吉林 117921 | 黑龙江 111852

南海诸岛

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BDS applications for maritime safety

In 2014, the Maritime Search and Rescue Information System Demonstration Project was launched to build distress alert management system. Using BeiDou positioning, short message communication services are to serve the maritime search and rescue areas.

基于北斗的中国海上搜救信息系统示范工程

船舶
港口
请输入船名,IMO,MMSI或呼号

船名:海巡011
北斗卡号: 317605
卫星数量: 0
定位状态:成功
2017/03/23 09:30

HAIXUN 011

IMO: MMSI: 412040340
呼号: BSLT 类型: 1176 mt
船旗: ABW DWT: 1176 mt
建造年代: 2009-12-01 吃水: 2.174 m
船舶港: 上海 船速: 21.5 kts
长×宽×高: 61.2×9.2×0 m
主机功率: 0.0 kW

AIS 北斗

最新时间: 2017-05-08 14:25:22 航向: 290°/139.2° 0.0m
位置: 31°1.28'N 122°10.61'E 货物:
航速: 0.2 kts 航行状态: 动力航行
目的港距离: N/A 目的港:
E.T.A.: N/A

船舶详细信息

船台标识: 412040340	初次登记号: CN20081087514	
船名中文: 海巡011	船名拼音: HAIXUN011	呼号:
卫通号:	通用分类: 公务	船舶种类: 公务船
船舶港: 上海	船舶总吨位吨: 604	船舶总长度: 61.2
DSC型号: JSS-296/FM-8800S	AIS型号: JHS-182	状态: 核配
标识设备序列号: 11277		
单位名称: 中华人民共和国上海海事局		
单位地址: 上海市四平路190号		
联系人: 范炼钢	传真: 0	邮编: 200086
联系电话(夜晚): 13611903195	联系电话(白天): 13611903195	
代管单位: 上海办事处	审批时间: 2013-10-29	注销时间:

中国交通通信信息中心
China Transport Telecommunications & Information Center

BDS applications for high accuracy position



Contribution to the national Beidou ground-based augmentation system, which includes 175 stations, transportation can support high-precision services.



Promote globalization of BDS



Under the frameworks of different organization, BDS will actively promote the cooperation around the globe.





Future of BDS in transportation



Focus on our daily lives in transportation



In future, each mode of transportation will benefit from the high accuracy, high reliable GNSS services.

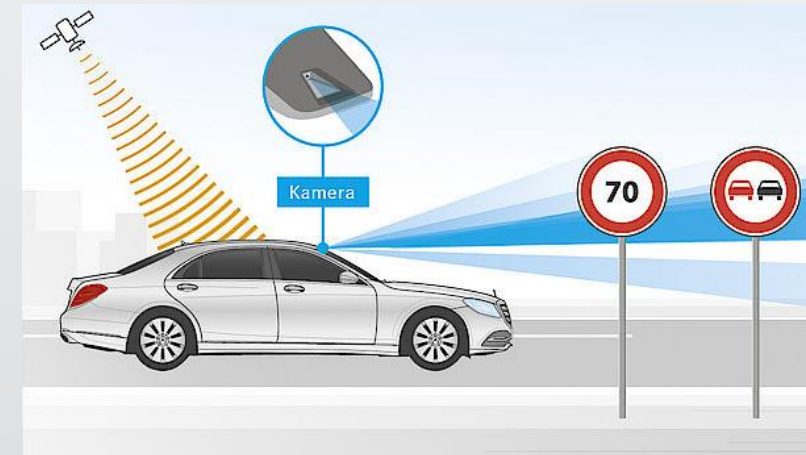
In case of transportation, we will provide better travelling experience for each participates.



Promote safety critical applications in transportation

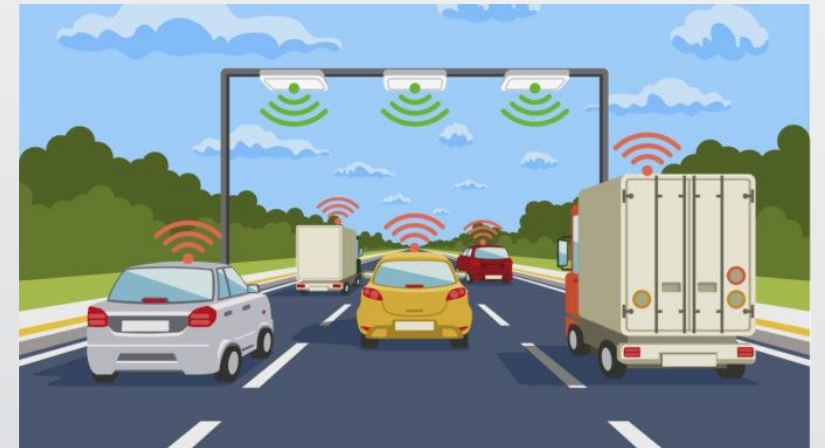


To continually improve the safety issue in transportation, BDS with other new technologies will be integrated to support better transportation.



Promote the mobility of transportation

We will continue to research and promote the mobility in the society using Beidou. Besides the intelligent vehicle itself, we will also focus on the intelligent road infrastructure, i.e. the V2X service. In near future, BDS high accuracy service will be part of road infrastructure.





BDS , SEARVE THE WORLD !

