

# Current status of work related to disability statistics in China

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# Disability all around the world

people around the world live with a disability

80% live in developing countries

1 in 17 people in China have a disability. That is

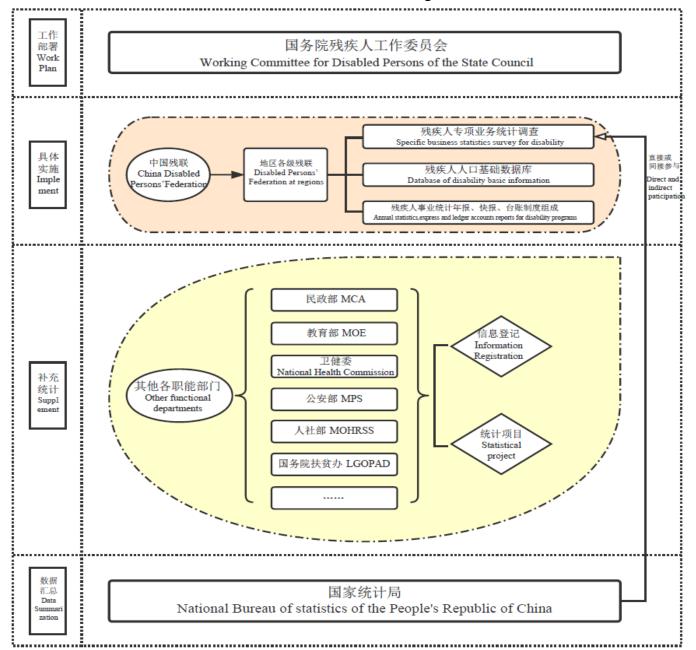
82.96 million

people (2006)

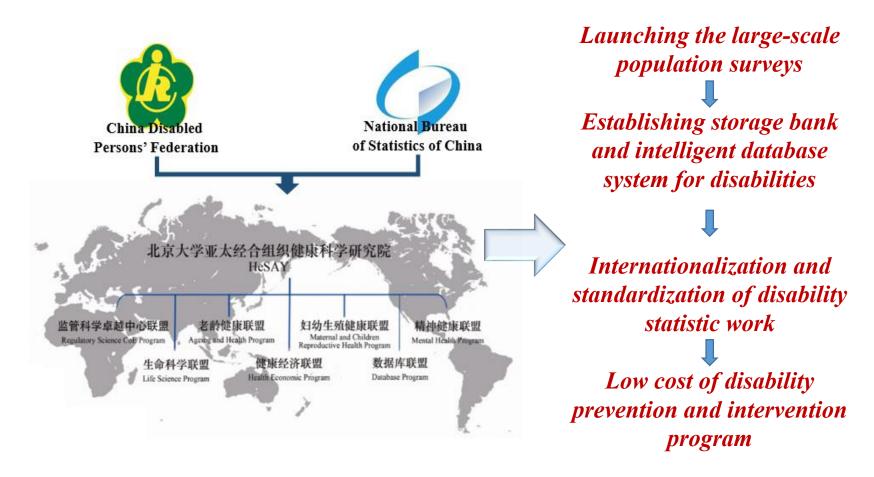




# Chinese disability statistics



# **Current status of work related to disability statistics in China**

















# Launching the *large-scale* disability national surveys





## The large-scale disability surveys

- **National Sample Survey of Disability in China, 1987** N=1,579,314, 31 Provinces, 424 Counties
  - **National Sample Survey of Disability in China, 2006** N=2,526,145, 31 Provinces, 734 Counties
    - National Monitoring and Survey of Social and Health for Disability Household in China, 2007-2014

Year=2009	N=38448	31 Provinces	734 Counties
Year=2010	N=35785	31 Provinces	734 Counties
Year=2011	N=42964	31 Provinces	734 Counties
Year=2012	N=42838	31 Provinces	734 Counties

National special survey and monitoring of the basic service conditions and demand information data of the disabled, 2015-2017





## Measurement

#### **Survey questions**

Disability type	Survey question	Definition
Visual	Do you or your family members have visual problems?	Visual disability refers to poor vision or constriction of the visual fie in both eyes from any cause and is not correctable. It consists of two categories: blindness and weak vision.
Hearing and speech	Do you or your family members have hearing of speech problems?	Hearing disability refers to permanent hearing loss of varying degree from any cause or the inability to hear at all or to hear clearly any nearby sound or voice. These deficits affect daily life and social activities.  Speech disability refers to any type of language disorder. Because successful treatment takes more than 1 year and the disability is generally present for more than 2 years, the patient cannot take part normal language exchanges, which undermines his or her daily life a participation in social activities
Physical	Do you or your family members have any difficulty walking, standing, squatting, climbing the stairs, grasping, washing and rinsing, or dressing?	Physical disability refers to a loss of motor function of varying degr g or to limitations in movements or activities resulting from deformed limbs or body paralysis (palsy) or from deformity caused by damage the structure or function of those body parts involved in mobility
Intellectual	Do you or your family members have any difficulty studying?	Intellectual disability refers to lower than normal intellectual ability and is accompanied by adaptive behavior disorders. This kind of disability results from impairment of the structure and functions of t nervous system, limits individual activity and participation, and requires all-round, extensive, limited, or intermittent support
Mental	Are you or your family members forgetful? Or do you have difficulty concentrating? Or can you not control your moods? Or do you have strange behaviour that is out of the ordinary? O are you addicted to alcohol or drugs?	Mental disability refers to psychiatric disorders lasting more than 1 year that manifest as cognitive, affective, and behavior disorders raffecting the daily life and social participation of the patient.

# Screening and confirmation



Physicians for further disability screening and confirmation

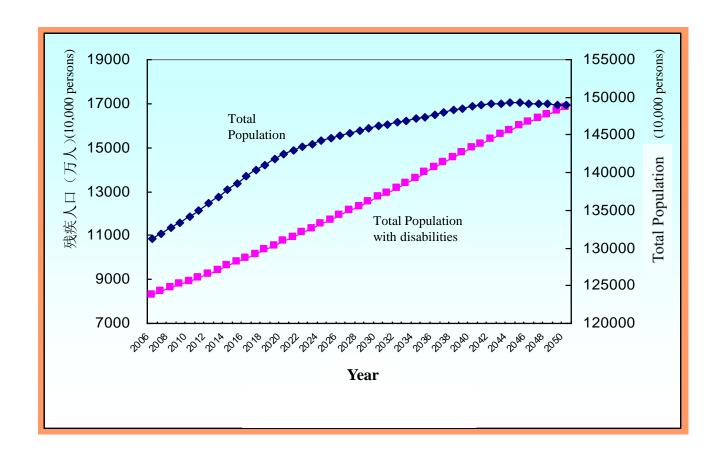


To confirm the severity of the disability and its primary causes





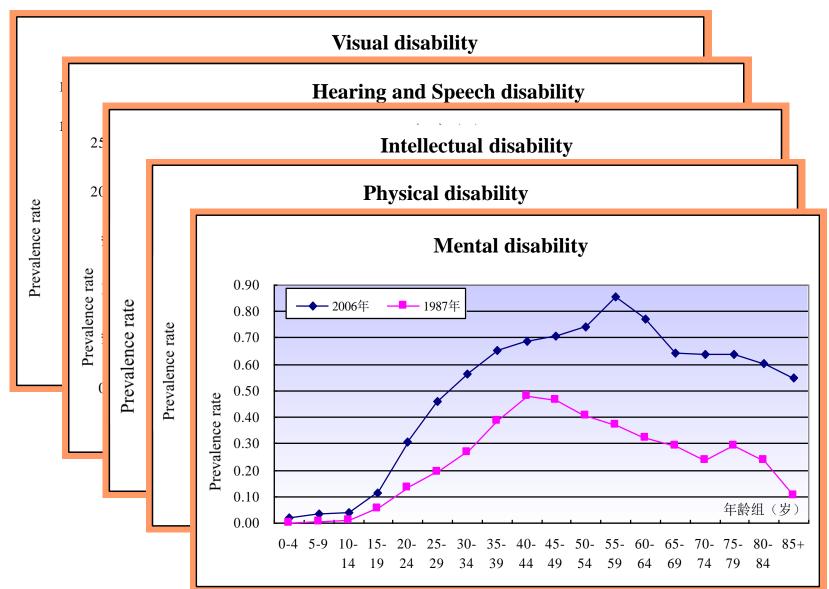
# Total population and disabled population size forecasting (2006-2050)







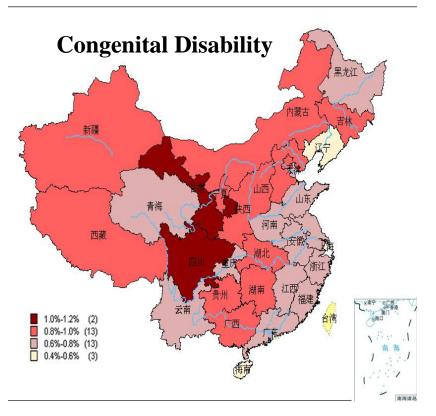
#### Prevalence rate on different types of disability by age in 1987 and 2006







### The Prevalence of Disability across Provinces in China

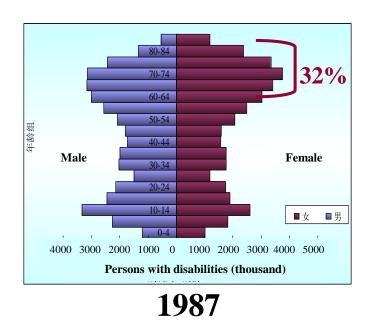


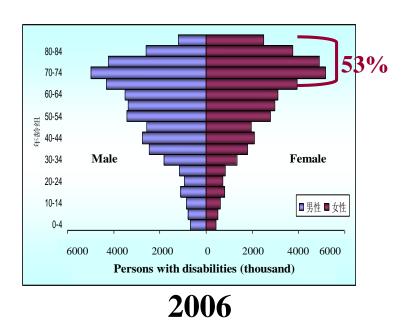




# Population ageing of PwDs?

• Population ageing, combined with the fact that disability has focused attention on the future changing of ageing population by many researches.



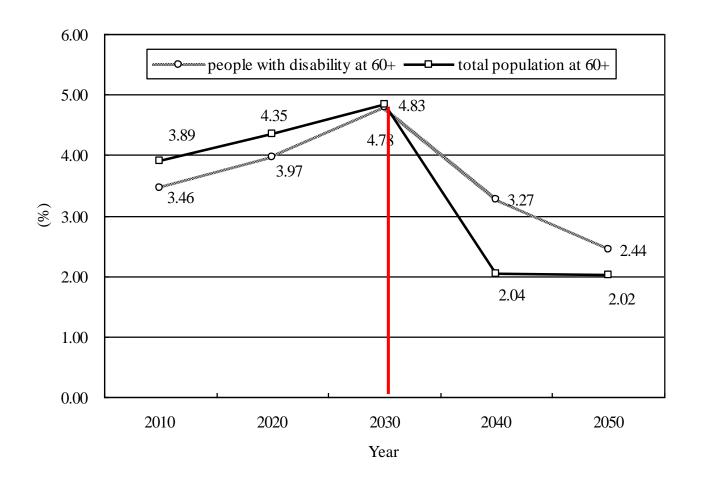


China is experiencing a process of population ageing of PwDs





# Annually average growth rate of older adults and older adults with disability (2006-2050)







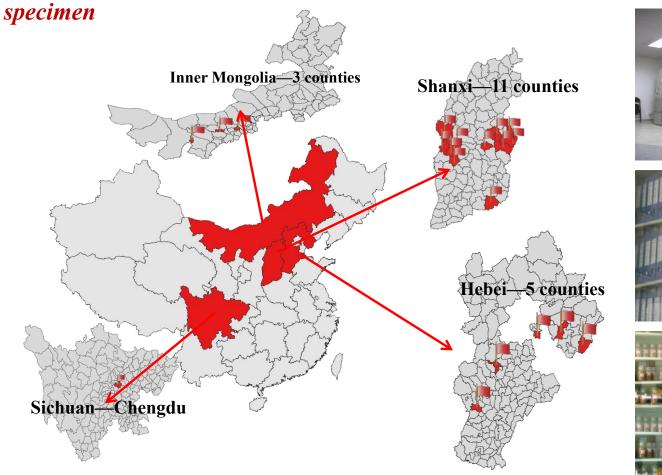
# Establishing the disabilities storage bank and intelligent database system





# Disabilities storage bank (Congenital disability)

The intelligent, information-based biological information and environmental







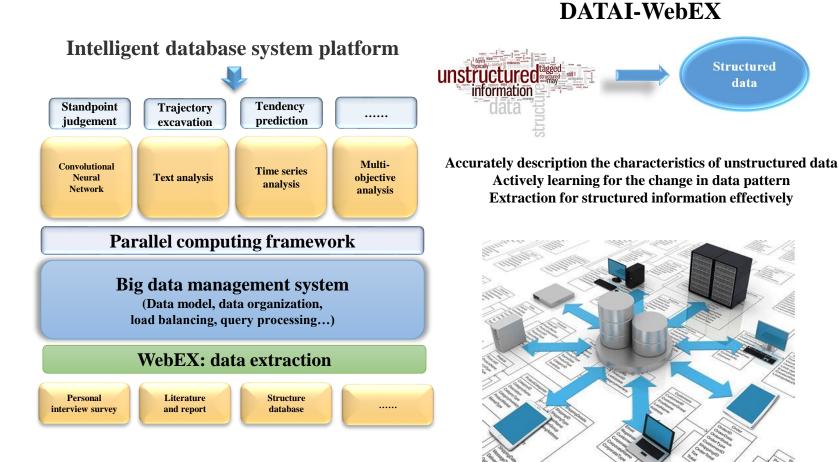






# Acquired disability

## Intelligent database system: extraction disability data

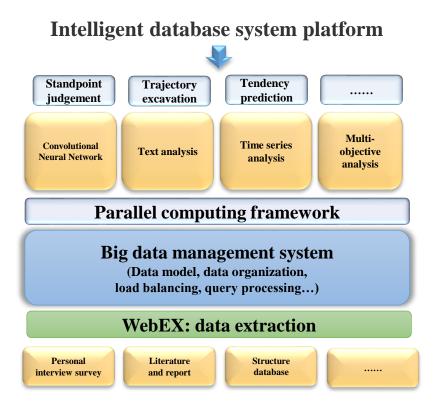




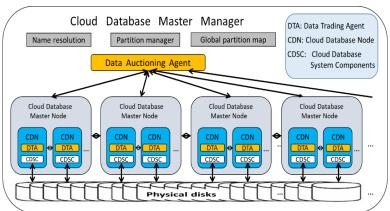


# Acquired disability

## Cloud database manager: disability data management



The speed of data inquiry are maximize Data transmission costs are minimized



It provides large-scale disability data information and efficient resource guarantee for the sustainability of disability research in China





# Internationalization and standardization of disability statistic work





#### Internationalization and standardization

Disabled-themed Events during the 22<sup>nd</sup> APEC Economy Leader's Week



Disability: integrate into society and enjoy the fruits of economic and social development

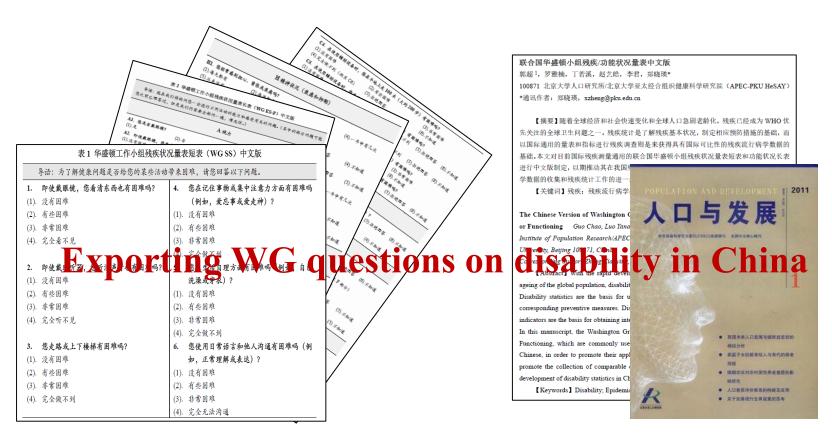


Forum on "Equal Access, Inclusive Development"





#### Internationalization and standardization



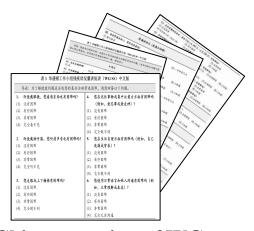
**Updated Chinese version of WG short set** and extended questions on disability

Published in extremely important Chinese journal in coming





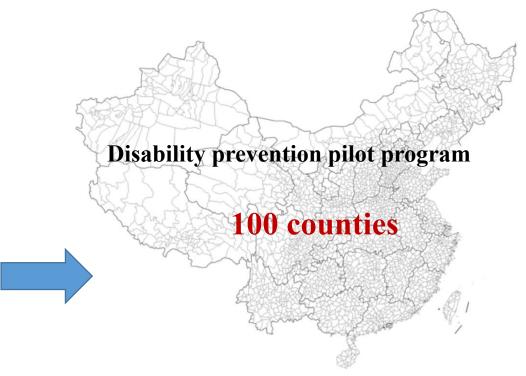
## In future



The Chinese version of WG short set and extended questions on disability



**Updated other WG questions into Chinese version** 



Plan to use WG questions in 100 counties disability prevention pilot program to exam their reliability and validity in China



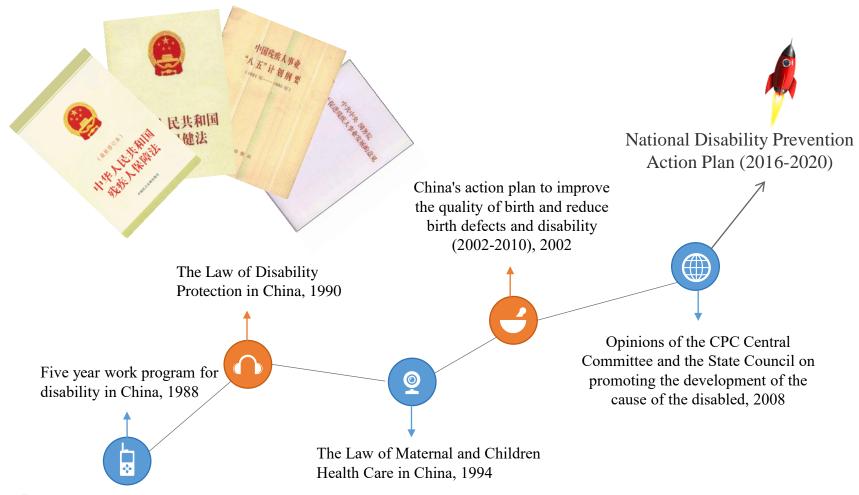


# Low cost of disability prevention and intervention program





## Important disability polices in China







### Disability prevention and intervention

APEC-PKU Health Science
Academy, Peking University
(HeSAY) / Institute of
Population Research, Peking
University was appointed as the
experts group leader of by the
State Council, PRC and China
Disabled Persons' Federation.

- ▶ 《国家残疾预防行动计划 (2016-2020 年)》
  "National Disability Prevention Action Plan (2016-2020) of China"
- ▶ 国务院《残疾预防和残疾人康复条例》
  "Regulation of Disability Prevention and Rehabilitation" by the
  State Council of China
- ▶ 《关于加快发展康复辅助器具产业的若干意见》 "Several Opinions on Accelerating the Development of Rehabilitation Aids Industry of China"







# National Disability Prevention Action Plan (2016-2020)



#### **Prevention at three levels**

#### **Primary Prevention**

National Day of disability prevention
1ST: 2017/08/25
NCD caused disability
Injury caused disability
Secondary Prevention
Prenatal/neonatal diseases/NCD screening
Tertiary Prevention
Every disability has rehabilitation services

#### By 2020,

- 1. The number of production safety accidents and casualties decreased by more than 10 percent.
- 2. The mortality rate of 10,000 vehicles decreased by 6 percent when road traffic safety management was strengthened.
- 3. The rate of cataract surgery is increasing over 2000.





## **Birth Defects Intervention Pilot Program**

Healthy Growth Project: 4 Counties in Shanxi



Effectiveness of Folic Acid Fortified Flour for Prevention of Neural Tube Defects

The risk of NTDs had dropped down 68.2%;

The disease burden of NTDs had dropped down 58.5%;

The scale of NTDs affected household had dropped down 21000 from 2002- 2004.





# National Comprehensive Pilot Program for Disability Prevention (100 counties, China)





Establishing and improving the organizational management system and working mechanism for disability prevention.

Implement the comprehensive prevention and intervention measures for disability to effectively control the occurrence and development of disability.

Establishing a disability reporting system form an unified disability information management system, and improving the standards for disability prevention





# Pilot Project for National Comprehensive Pilots for Disability Prevention (100 counties in China)

Prenatal screening and diagnosis

Screening and diagnosis of disability in children

project
publicity and
education

Disability reporting system

4

By 2020, the coverage rate of prenatal screening will reach more than 80%, and the prenatal diagnosis rate of suspected abnormal pregnant women should reach more than 50%;

To build a network for prenatal screening and diagnosis, and standardize the implementation of consultation, and explore the experience of prenatal screening and prenatal diagnosis

By 2020, the screening rate of disabled children aged 0-6 years old will be over 85%, and the diagnostic rate of screening increased to more than 50%. To establish a mechanism for screening and diagnosing children's disabilities and standardize the screening services for children, and to explore the experience of disability screening and diagnosis for children

Improving for the utilization rate of disability prevention. Improving disability service satisfaction.

By 2020, the awareness rate of prevention knowledge was 60%, and the prevalence rate of disability prevention knowledge was 80%.

The management system of disability reporting system will be established, and the process of information reporting will be standardized.

Comprehensive understanding of the occurrence and causes of disability in the experimental area





## Low cost of disability prevention pilot program



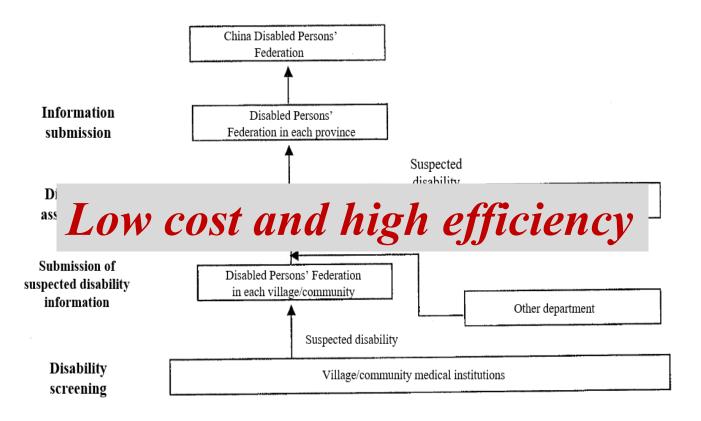
#### Decreasing the economy and time cost of pilot program

Maintain the accuracy of data extraction, improving the extraction efficiency, reducing the cost of comprehensive intervention on disability prevention.





## Vertical disability reporting system



After achievement the success of pilot program, the model of vertical disability reporting system application can be formed and then rolled out nationally.





## Extending the disability prevention pilot model

Enabling everyone to be involved in health, share health, and be responsible for health

# Disability prevention pilot work

100 counties

Constructing the work platform of prenatal screening and prenatal diagnosis information; establishing a 0 to 6 years old children's disability screening management mechanism; setting up the defense work of chronic disease, infectious disease, and mental illness; strengthening the precise treatment and rehabilitation services.



National Disability Prevention Action Plan (2016-2020)

Perfecting the disability prevention work system; enhancing the awareness and ability of disability prevention; decreasing the disability incidence into a low level.

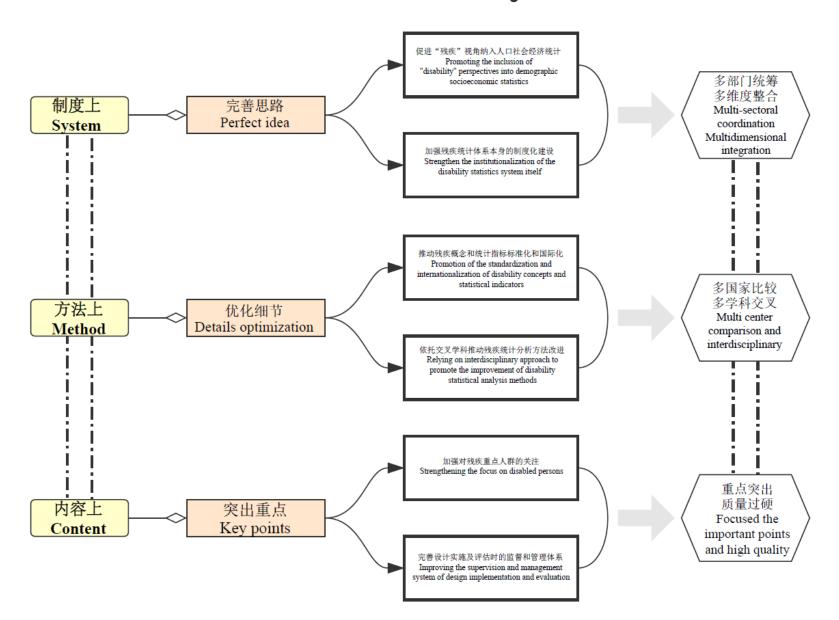
Healthy China 2030

Everyone to be involved in health, share health, and be responsible for health





## Future direction of disability statistics in China





# THANKS



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