



中国社保数字化转型实践

Digital Transformation of China's Social Security System

宋京燕

SONG Jingyan

人力资源和社会保障部信息中心
Information Center of MOHRSS

2022年7月
July 2022



记录一生 · 保障一生 · 服务一生

目录

CONTENTS

1. 中国社保数字化转型发展历程

Development of China's social security digital transformation

2. 社保数字化转型总体规划

Overall plan of social security digital transformation

3. 推动“大平台”建设

Promoting the construction of "big platforms"

4. 构建“大服务”体系

Building a "big service" system

5. 助力“大数据”监管

Facilitating "big data" supervision

6. 保障数据安全

Ensuring data security

7. 课题任务及下一步工作

Project tasks and next steps

中国社保数字化转型发展历程

Development of China's social security digital transformation

信息数字化时期

Digitization of information

(20世纪80年代—90年代)

1980s-1990s

- ◆ 随着企业职工养老保险改革，开发单机版信息系统
- ◆ With the reform of old-age insurance for enterprise employees, a single-user information system was developed
- ◆ 城镇职工各项社会保险制度陆续改革，国家统一规划全国社保管理信息系统建设
- ◆ With successive reforms of various social insurance systems for urban employees, the government started planning for a national social security administration information system

业务数字化时期

Digitalization of services

(1999年—2015年)

1999-2015

- ◆ 五险一金社会保险管理信息系统核心平台统一软件
- ◆ A unified software for the central platform of the social insurance administration information system for five types of insurance was developed
- ◆ 制定《社会保障卡建设总体规划》，发行首批社会保障卡
- ◆ The *Master Plan for Social Security Card Construction* was formulated and the first batch of social security cards were issued
- ◆ 2002年，启动“金保工程”项目
- ◆ *Golden Insurance Project* was launched in 2002
- ◆ 2012年，金保工程一期竣工验收
- ◆ The first phase of the *Golden Insurance Project* was completed and accepted in 2012

数字化转型推进时期

Digital transformation

(2016年—)

2016-

- ◆ 2016年，启动金保工程二期项目
- ◆ The second phase of *Golden Insurance Project* was launched
- ◆ 制定《“互联网+人社”2020行动计划》
- ◆ The 2020 "*Internet+HRSS*" *Action Plan* was made
- ◆ 中国社会保险基本形成各地全流程信息化管理格局
- ◆ A pattern of full process information-based administration of social insurance is established in all regions in China
- ◆ 注重服务对象需求和用户体验，持续推动社保数字化转型
- ◆ Focus on users' needs and experience, and continue to promote the digital transformation of social security

社保信息化与数字化转型

Informatization and digital transformation of social security

- Full data sharing, online access to all services, all services by the card
- "one-card-for-all-services" for residents
- "Big platform, big data, big services, big security"

- 全数据共享、全服务上网、全业务用卡
- 居民服务“一卡通”
- “大平台、大数据、大服务、大安全”



目录

CONTENTS

1. 中国社保数字化转型发展历程

Development of China's social security digital transformation

2. 社保数字化转型总体规划

Overall plan of social security digital transformation

3. 推动“大平台”建设

Promoting the construction of "big platforms"

4. 构建“大服务”体系

Building a "big service" system

5. 助力“大数据”监管

Facilitating "big data" supervision

6. 保障数据安全

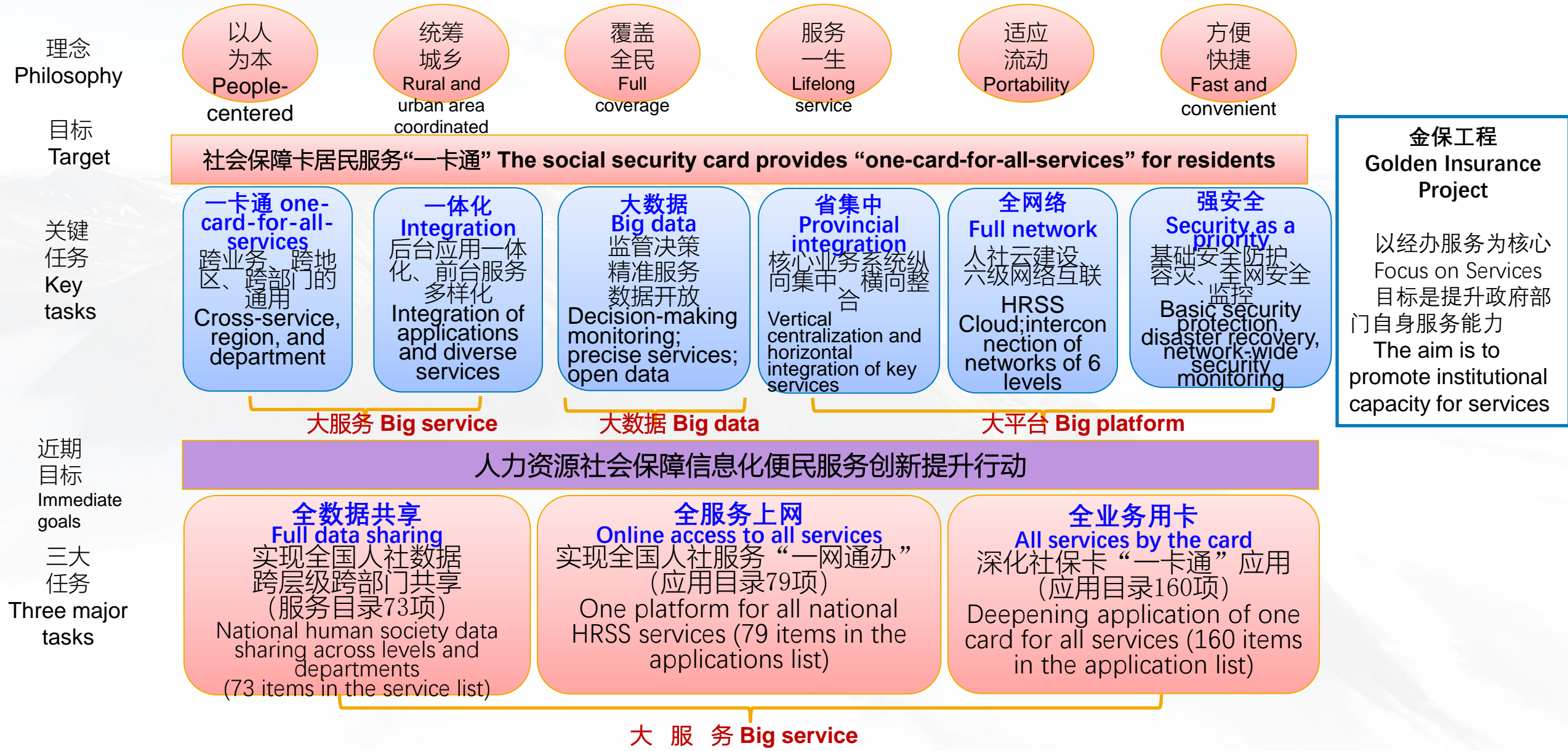
Ensuring data security

7. 课题任务及下一步工作

Project tasks and next steps

社保数字化转型总体规划

Overall planning of digital transformation of social security



目录

CONTENTS

1. 中国社保数字化转型发展历程

Development of China's social security digital transformation

2. 社保数字化转型总体规划

Overall plan of social security digital transformation

3. 推动“大平台”建设

Promoting the construction of "big platforms"

4. 构建“大服务”体系

Building a "big service" system

5. 助力“大数据”监管

Facilitating "big data" supervision

6. 保障数据安全

Ensuring data security

7. 课题任务及下一步工作

Project tasks and next steps

社会保险省级集中信息系统

Integrated information system of social insurance at provincial level

企业职工养老保险、城乡居民养老保险
Basic old-age insurance schemes for
enterprise employees and for urban
and rural residents

- 各省份均已建设省级集中信息系统
- Integrated information system of social insurance has been set up by all provinces
- 实现地市全覆盖
- Cities are all covered

机关事业单位养老保险
Old-age insurance scheme for
public employees

- 各省份均已建设省级集中信息系统
- Integrated information system of social insurance has been set up by all provinces
- 福建仅覆盖部分地市
- All cities are covered except for some cities in Fujian Province

失业保险
Unemployment insurance

- 各省份均已建设省级集中信息系统
- Integrated information system of social insurance has been set up by all provinces
- 黑龙江、陕西、广东、福建4个省份仅覆盖部分地市
- All cities are covered except for some cities in Heilongjiang, Shaanxi, Guangdong and Fujian Provinces

工伤保险
Work injury insurance

- 30个省份已建设省级集中信息系统
- Integrated information system of social insurance has been set up by all provinces
- 黑龙江仅覆盖部分地市
- All cities are covered except for some cities in Heilongjiang Province

养老保险全国统筹系统

National coordinated system of old-age insurance

按照养老保险全国统筹工作部署，按照**全国统一、数据实时同步、部省两级联动、风险有效管控**的总体要求，**2021年底前**，建成全国统一的养老保险全国统筹信息系统

In accordance with the requirements of **unified national standards, real-time data sharing, linkage mechanism at ministerial and provincial levels, and effective risk control**, a unified national information system for old-age insurance was completed **by the end of 2021**



经办监管 Operation regulation

- 实现养老保险数据全国集中管理。
- Integrated administration at national level of old-age insurance data.
- 支持经办实时风险管控、集中监管和分析预警。
- Real-time risk control, centralized regulation and early warning.
- 实现全国企业职工基本养老保险基金“一本账”管理。
- "One account" management of the national basic old-age insurance fund for enterprise employees.



协同共享 Coordinated sharing

- 推动与财政、税务等相关部门信息互联互通。
- Promote the interconnection of information with relevant departments such as finance and taxation.



公共服务 Public services

- 社会保障卡全覆盖，大力推广电子社保卡，深化社会保障卡“一卡通”应用。
- Achieve full coverage of the social security card, promote the E-social security card, and deepen the application of "one-card-for-all-services"
- 全面提升养老保险线上公共服务水平，实现养老保险服务事项“一网通办”“一卡通用”。
- Enhance the quality of online public services for old-age insurance and achieve "one platform for all service" and "one card for all services"

上线运行情况 Operation

2021年12月28日，养老保险全国统筹信息系统正式上线运行
30个省级业务系统接入部级系统
上线运行

全部省份完成基金财务系统部省对接，全国“一本账”基本形成

On December 28, 2021, the national coordinated information system for old-age insurance was officially launched

30 provincial systems connected to the ministerial system was launched

All provinces have completed the interface between financial systems at ministerial and provincial levels, and the national "one account" has basically been formed

部级跨地区业务系统—社会保险比对查询系统

比对查询 系统 Verification system

社会保险参保待遇信息校验 Verification of social security participation information

参保人办理参保登记、转移网上申请、失业待遇申领时，通过系统实时查验参保人参加社会保险的缴费及待遇状态情况。
Real-time verification of payment and benefits information of participants when applying for registration, online application of transfer and unemployment insurance benefit collection

境外社会保险免缴证明申请核验 Verification of offshore social insurance exemption certificates application

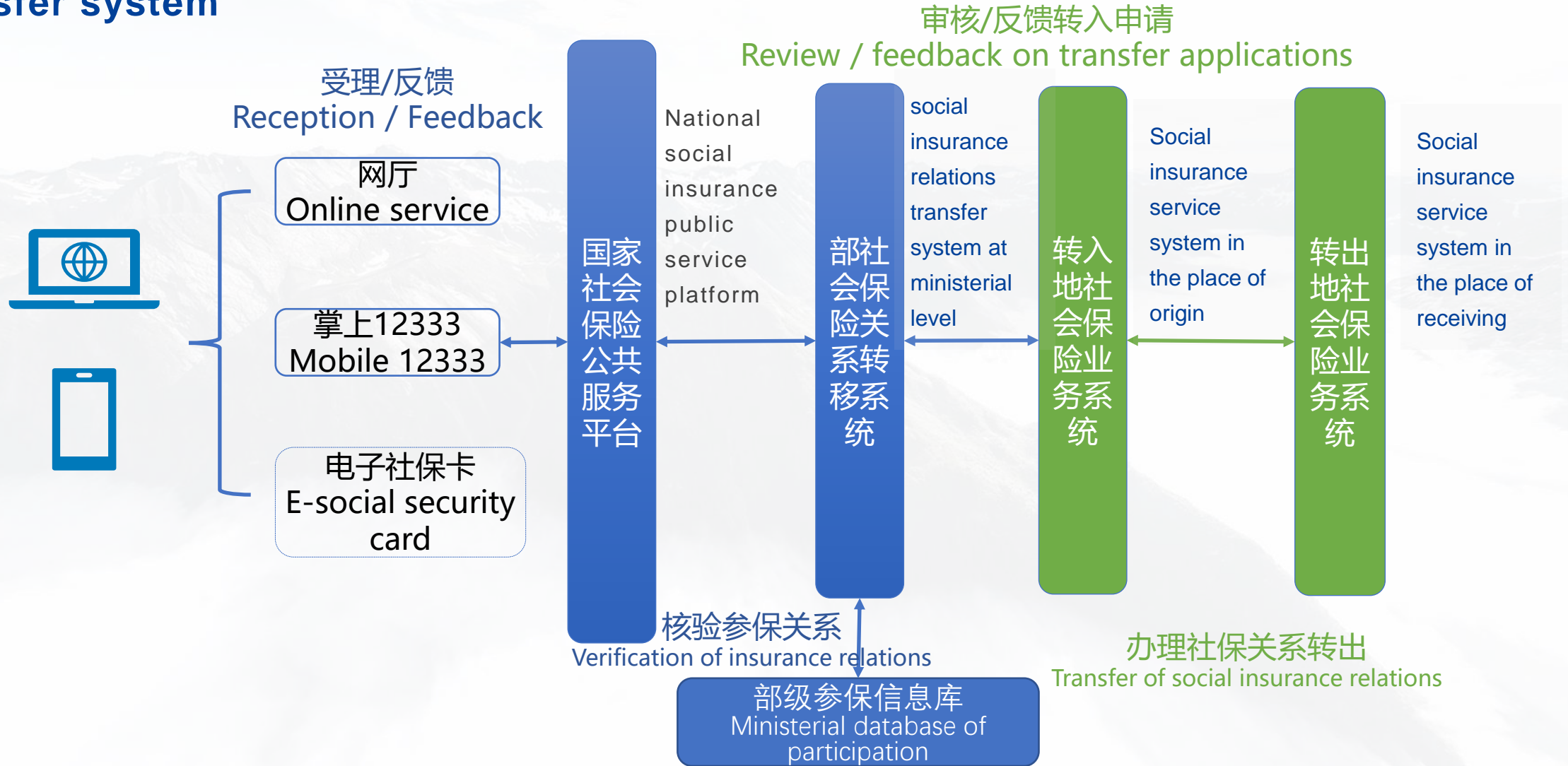
赴外工作参保人在线申请免缴证明后，经办人员通过系统核验申请人参保缴费状态，反馈审核结果。
Verification and feedback of contribution status upon application of social insurance exemption certificate by participants working offshore

全国认证待遇人员数据支持 Data support for benefits receivers certification

作为数据来源，为全国认证提供待遇人员基本信息。
A source of data to provide basic information on benefit receivers for national certification

部级跨地区业务系统—社会保险关系转移系统

Ministerial cross-regional service system - social insurance relations transfer system



职业伤害保障信息平台

Information platform of work injury protection



建成全国集中信息平台

Set up a national integrated information platform

2022年底6月前，建成全国集中的新就业形态就业人员职业伤害保障信息平台，发挥全国信息平台中枢作用，实现部省间经办服务的衔接和信息的归集流转，实现全国数据集中管理和分析监管

By June 2022, a national integrated information platform on work injury protection for works in new employment patterns will be completed, which will play the role of a pivot, enabling coherence of services between ministerial and provincial levels, and the collection and transfer of information, achieving centralized data management and analysis and supervision at national level



推进与试点平台企业对接

Promote interface with pilot platform enterprises

与平台企业实现“总对总”对接

High-level interface with platform enterprises has been achieved



推进与试点省份对接

Promote interface with pilot provinces

与试点省份实现对接

Interface with pilot provinces has been achieved



提升公共服务可及性

Enhance accessibility of public services

推进社会保障卡在职业伤害保障领域的应用，实现职业伤害保障待遇通过社会保障卡发放。完善全国统一的社会保险公共服务平台，面向新业态就业人员提供“一网通办”服务

Promote the application of social security cards in the field of work injury protection, and realize the payment of benefits through social security cards, improving the national unified social insurance public service platform and providing "one platform for all" services for works in new employment patterns

个人养老金信息服务平台

Individual pension information service platform

服务入口 Access

国家社会保险公共服务平台
National social insurance
public service platform

人社政务服务平台
HRSS services platform

掌上12333APP
Mobile 12333 APP

电子社保卡
E-social security card

手机银行
Mobile bank

银行柜面
Bank counter

人力资源社会保障部 MOHRSS

社保比对查询库
Verification
database

持卡人员基础信息库
Database of card
holders information

社会保险联网监测库
Interconnected
monitoring
database of social
insurance

Management and service platform of individual pension information

个人养老金信息管理服务平台

开户核验
New account
verification

产品交易
Products
transaction

信息变更
Information
change

数据汇聚
Data
convergence

缴存核验
Payment
verification

凭证打印
Certificate
printing

信息查询
Information
searching

宏观监管
Macro
regulation

账户转移
Account
transfer

待遇支取
Benefits
collection

账户转移
Account
transfer

大屏展示
Large screen
display

服务门户 Service portal

国家税务总局

State Administration
of Taxation

个人所得税APP
Income tax APP

国家税务总局
信息系统
Information system
of State
Administration of
Taxation

个人养老金资金账户开户行

Accounts bank for individual pension

符合条件的商业银行
Eligible commercial banks

金融行业平台 Platforms of financial institutions

中证登信息系统
CSC Information System

产品发行机构
Products issuers

产品销售机构
Products sellers

中银保信信息系统
CBIT Information System

产品发行机构
Products issuers

产品销售机构
Products sellers

目录

CONTENTS

1. 中国社保数字化转型发展历程

Development of China's social security digital transformation

2. 社保数字化转型总体规划

Overall plan of social security digital transformation

3. 推动“大平台”建设

Promoting the construction of "big platforms"

4. 构建“大服务”体系

Building a "big service" system

5. 助力“大数据”监管

Facilitating "big data" supervision

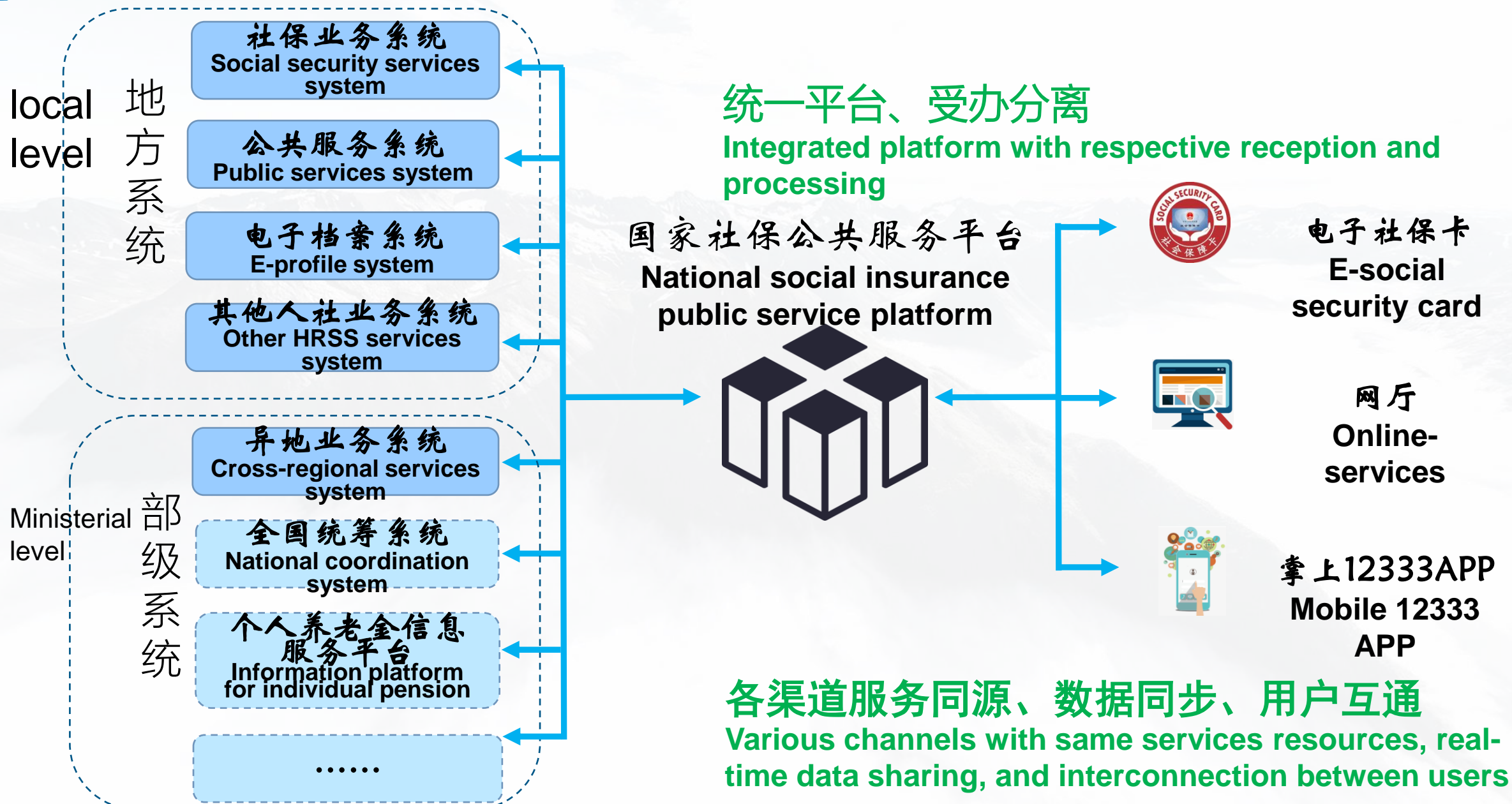
6. 保障数据安全

Ensuring data security

7. 课题任务及下一步工作

Project tasks and next steps

国家社会保险公共服务平台 National social insurance public service platform



国家社会保险公共服务平台

National social insurance public service platform

- 国家社会保险公共服务平台2019年9月15日正式上线，作为全国统一的社会保险公共服务的总门户，重点为参保人和参保单位提供全国性、跨地区的社会保险公共服务。截至6月底，总访问人次超过35.8亿次
- The national social insurance public service platform was officially launched on 15 September 2019, serving as the general portal for nationally unified social insurance public services, focusing on providing nationwide and cross-regional social insurance public services for participants and employers. By the end of June, the total number of visits exceeded 3.58 billion

国家社会保险公共服务平台 National social insurance public service platform

- 提供多样的服务内容。截至6月底提供77项全国服务。
 - **社保信息全国查**：参保人可以随时随地查询在多个城市参保的社保缴费、享受待遇等信息；
 - **待遇资格掌上认**：“刷脸”完成社保待遇资格认证（可以自己认证，还能为家人认证）；
 - **社保待遇自己算**：估算退休后能领多少养老金；失业后可领多少失业保险金
 - **免缴证明网上申**：申请境外社保免缴证明；
 - **社保转移线上办**：网上申请企业职工养老保险关系转移；
 - **失业待遇网上领**：全国统一入口申领失业保险金和失业补助金；
 - 还可以查询社会保险转移办理情况、社保卡和电子社保卡的应用状态、社保基金检查证信息，获知周边的服务网点和服务渠道等。
- It offers a diverse range of services. By the end of June, 77 nation-wide services are available.
 - **Nationwide access to social security information**: Check social security contributions and benefits in multiple cities anytime, anywhere.
 - **Mobile recognition of eligibility for benefits**: "Swipe the face" to complete the certification of eligibility for social security benefits (for oneself and family members).
 - **Calculation of social security benefits**: Estimate amount of pension and unemployment insurance benefits
 - **Online application for exemption certificates**: Apply for an offshore social security exemption certificate.
 - **Online social security transfer**: Apply online for pension relations transfer for enterprise employees.
 - **Unemployment benefits collection online**: A single national portal for unemployment insurance benefits and unemployment allowances application and collection.
 - Participants can also check the status of social insurance transfers, application of social security cards and E-social security cards, information on social security fund inspection certificates, and be informed of the service agencies and service channels nearby.

社会保障卡 Social Security Card

名称：中华人民共和国社会保障卡（简称社保卡）

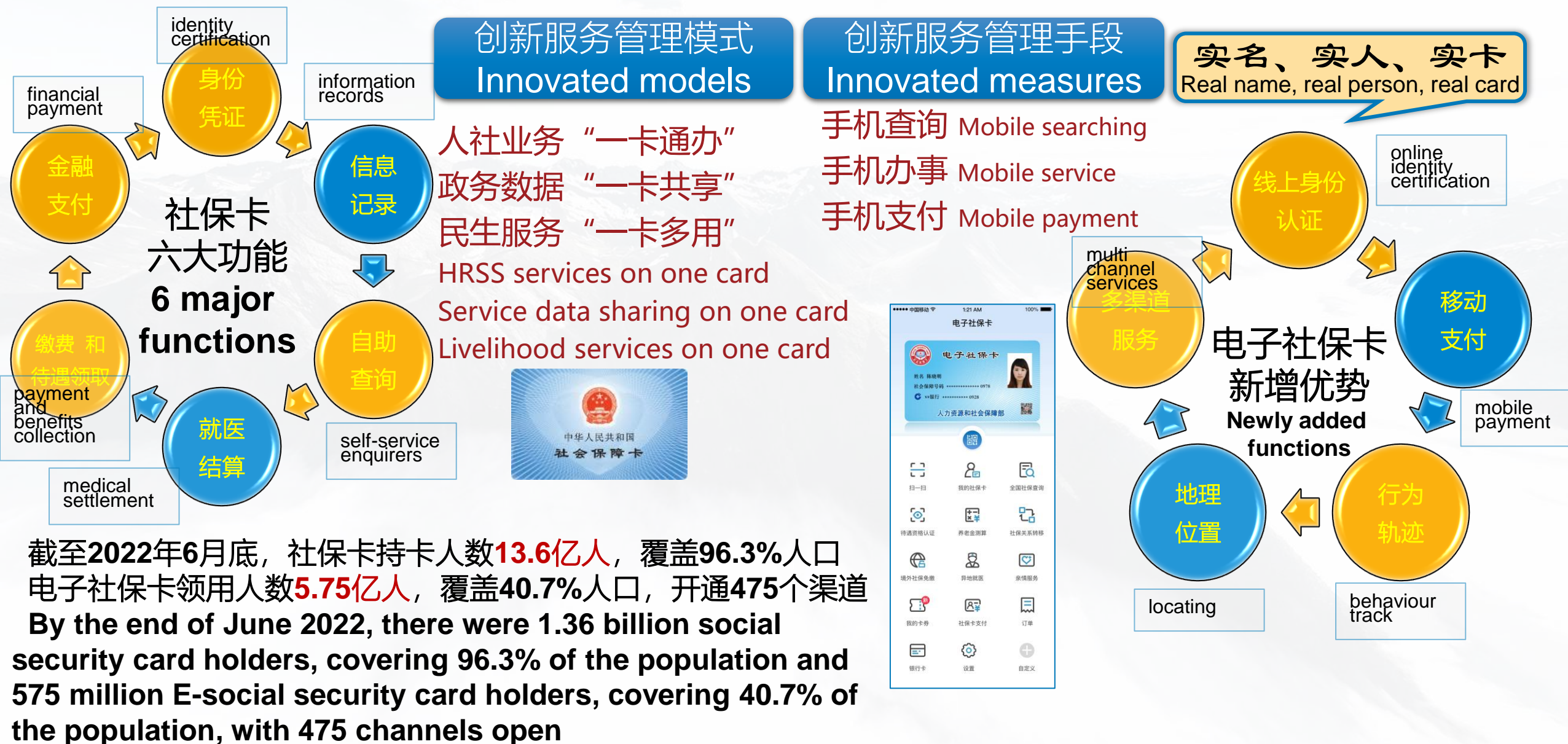
Name: Social security card of P.R.C

由人力资源和社会保障部统一规划，以人力资源和社会保障部门为主体，联合合作商业银行面向个人发行，具有身份凭证、信息记录、自助查询、就医结算、缴费和待遇领取等社会保障应用功能，以及现金存取、转账、消费等金融应用功能的集成电路（IC）卡，是群众享受人力资源和社会保障权益的有效凭证，是政府公共服务、社会治理、智慧城市建设的重要载体。

It is an IC card for individuals, planned by the MOHRSS, issued by HRSS department, in cooperation with commercial banks. Its functions include social security applications such as identity certification, information records, self-service inquiries, medical settlement, payment and benefits collection, as well as financial applications such as cash deposit and withdrawal, transfer and consumption.



社会保障卡 Social Security Card



目录

CONTENTS

1. 中国社保数字化转型发展历程

Development of China's social security digital transformation

2. 社保数字化转型总体规划

Overall plan of social security digital transformation

3. 推动“大平台”建设

Promoting the construction of "big platforms"

4. 构建“大服务”体系

Building a "big service" system

5. 助力“大数据”监管

Facilitating "big data" supervision

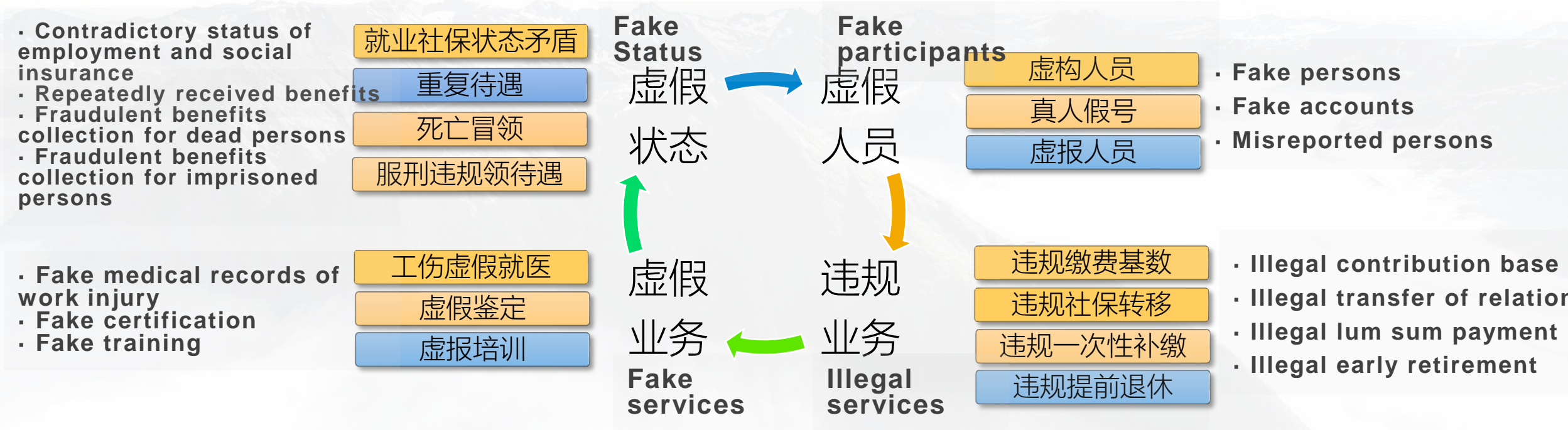
6. 保障数据安全

Ensuring data security

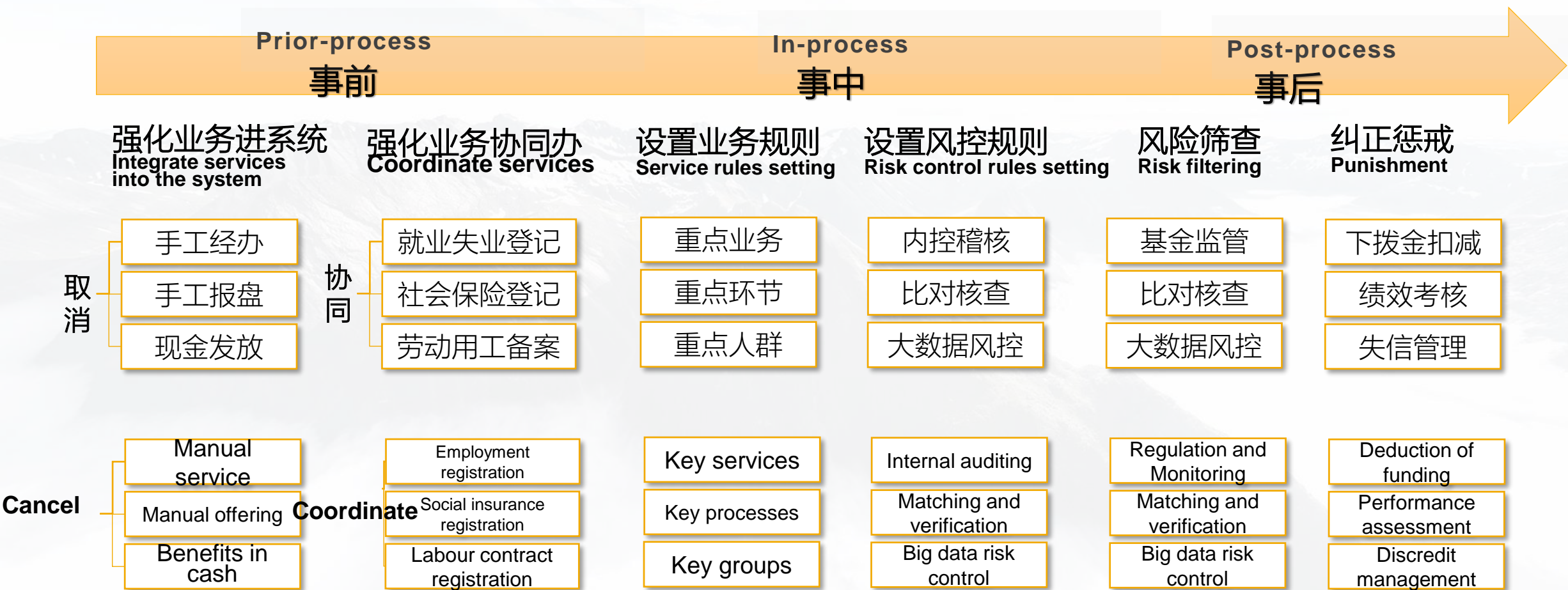
7. 课题任务及下一步工作

Project tasks and next steps

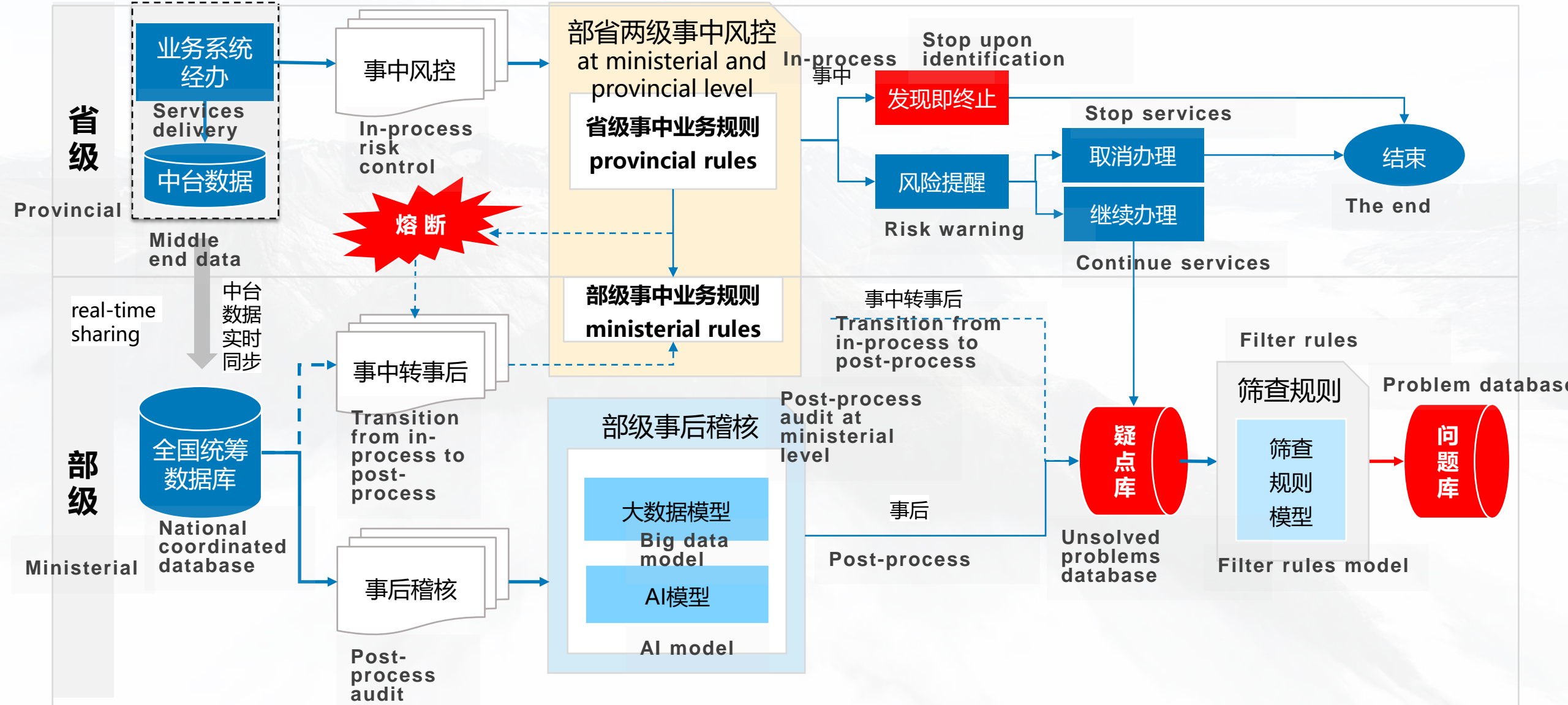
全过程风险防控体系 Full process risk control system



全过程风险防控体系 Full process risk control system



事中系统风控：全国统筹业务“大管控” In-process risk control: "big control" for national coordinated services

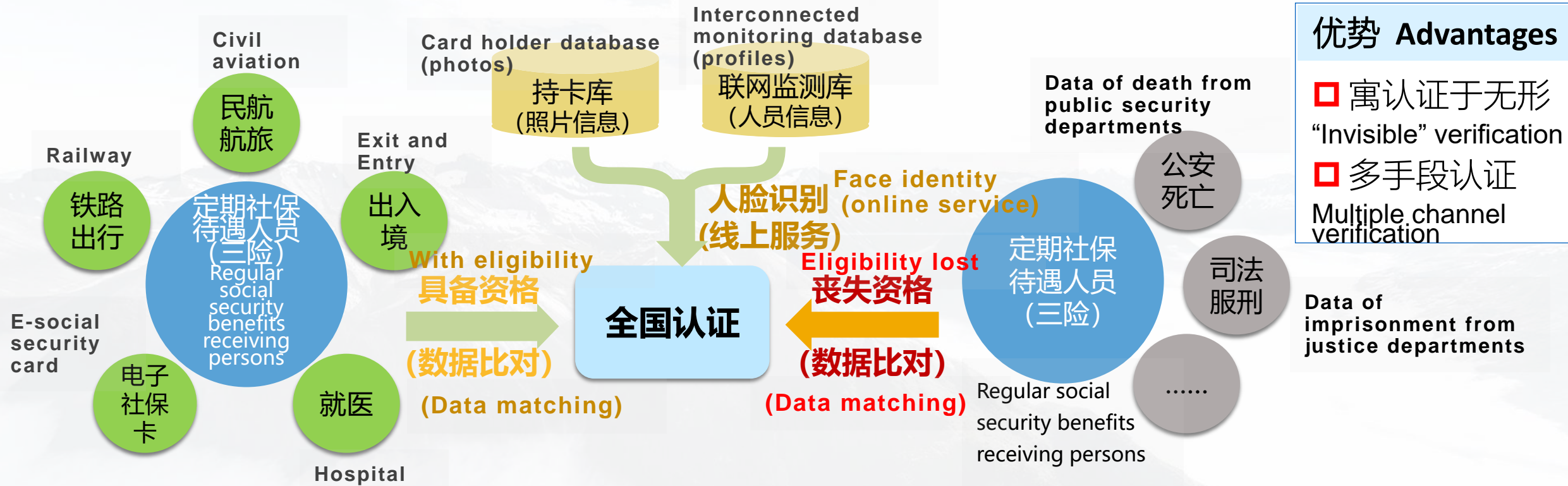


事后系统防控：基金监管系统 Post-process security: fund regulation and monitoring system



大数据共享核验：社保待遇领取资格核验

Big data sharing for verification: eligibility of benefits receiving



- 从活跃、死亡两个角度开展数据比对 Data matching from perspective of being "active" and "dead"
- 以数据比对为主，自助认证为辅 Data matching supplemented by self verification
- 逐步探索个性化递延认证 Exploration of customized deferred certification
- 死亡数据定期反馈公安人口库 Data of death is regularly fed into the public security population database

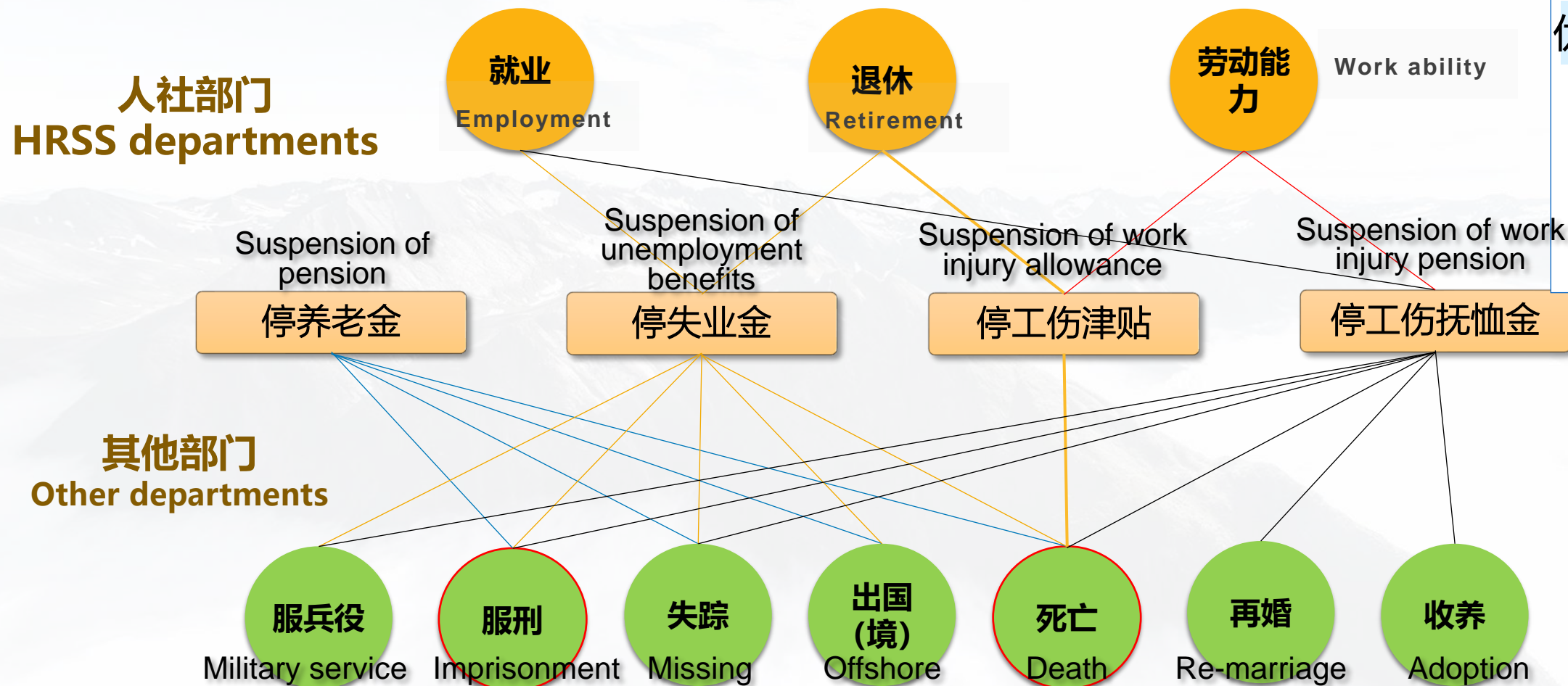
类似做法 Similar practices

特殊津贴专家待遇认证：
Benefits verification for experts with special allowance
将专家清单定期与人口库比对
Regular checking of expert list with the population database

大数据共享核验：部门数据共享排查风险 Big data sharing for verification: departmental data sharing for risk identification

优势 Advantages

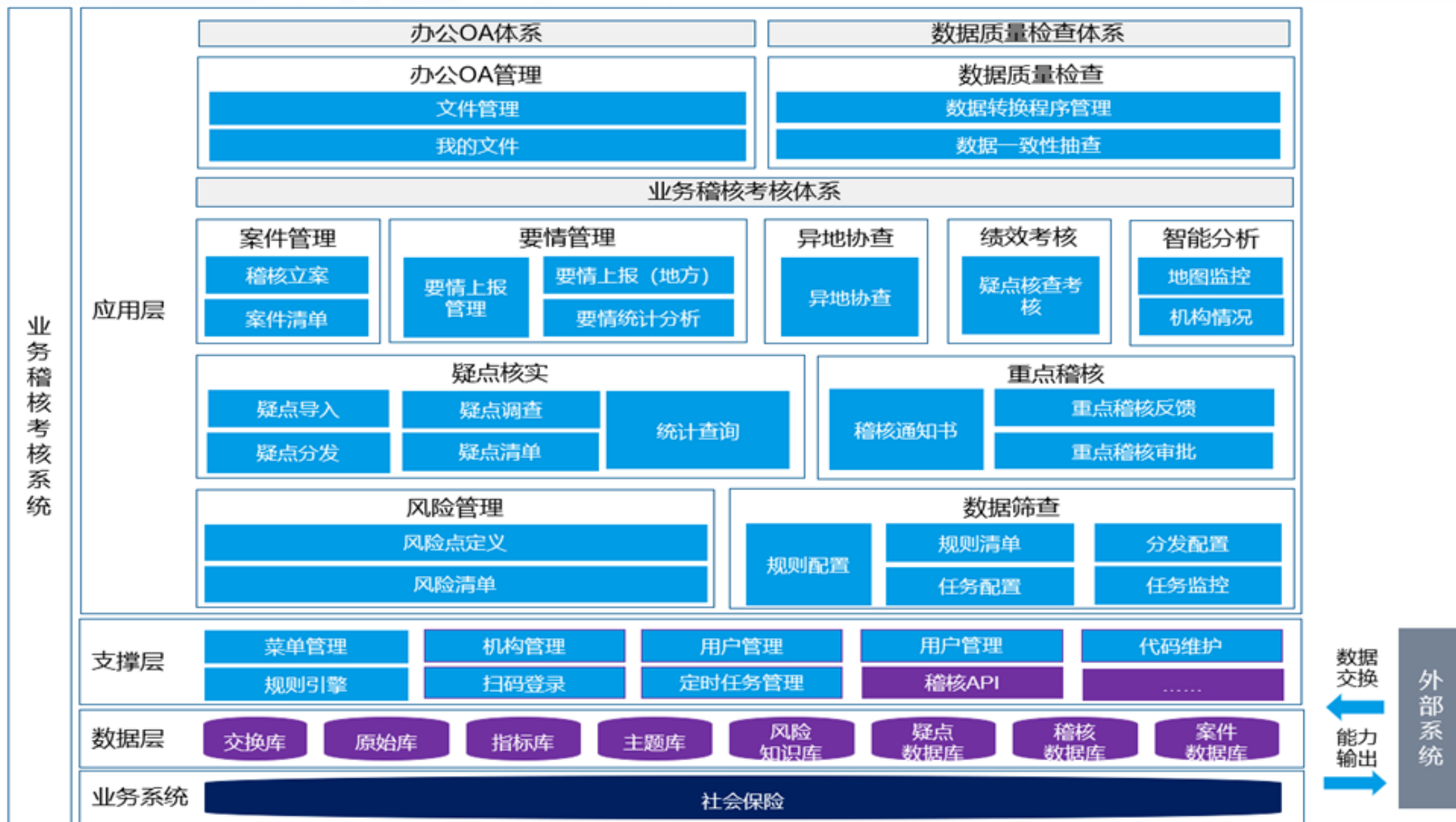
- 精确管理
Accurate management
- 降低欺诈
Reduce Fraud



- 各省要加强跟公安、民政、卫健、司法等部门共享 Provinces should strengthen sharing with public security, civil affairs, health and justice departments
- 以人的状态为脉络，整合形成人社大数据 Integrate and form big data of HRSS, by tracking status of participants
- 寻找矛盾的状态，视为风险点 (死亡冒领、疑似假人、服刑继续领取等) Identify risks by contradictory status (fraudulent collection for dead participants, suspected fake person, continuing to receive benefits a while imprisoned, etc.)

大数据共享核验：业务稽核考核系统下发疑点

Big data sharing for verification: service auditing and assessment system for problems identification



目录

CONTENTS

1. 中国社保数字化转型发展历程

Development of China's social security digital transformation

2. 社保数字化转型总体规划

Overall plan of social security digital transformation

3. 推动“大平台”建设

Promoting the construction of "big platforms"

4. 构建“大服务”体系

Building a "big service" system

5. 助力“大数据”监管

Facilitating "big data" supervision

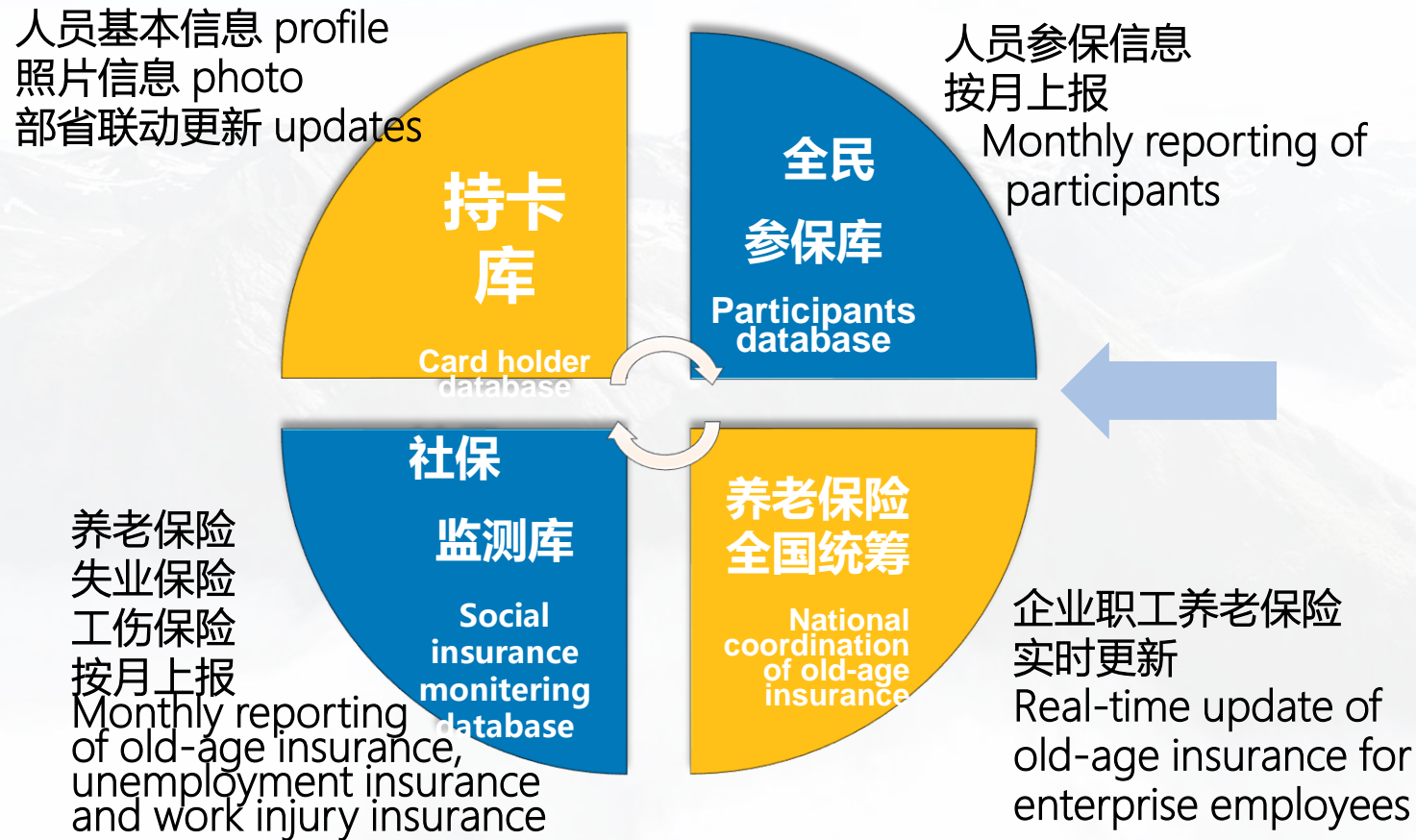
6. 保障数据安全

Ensuring data security

7. 课题任务及下一步工作

Project tasks and next steps

部级社保大数据构成 Structure of big data of social insurance at ministerial level



外部共享数据 External shared data

- 国家人口库比对核验
- 公安部、司法部、市场监管总局等多部委共享数据
- National Population Database Matching and Verification
- Shared data from multiple ministries including Ministry of Public Security, Ministry of Justice and General Administration of Market Regulation

部级现有的主要数据资源 Major data resources at ministerial level

社保大数据安全保障 Big data security

法律法规、
部门规章
Laws and
regulations



2016年11月颁布



2021年6月颁布



2021年8月颁布

《社会保险个人权益记录管理办法》
Regulations on Management of Individual Social Insurance Benefits Records

《人力资源和社会保障数据安全规范（暂行）》
Regulations on Human Resources and Social Security Data Security Management (Provisional)

安全防控
技术手段
Technical
means

基础安全
防护

Basic
security

全网安全
监控

Network-
wide
monitoring

异地
灾备

Offsite
Disaster
Recovery

数据
加密

Data
Encryption

数据
审计

Data
Auditing

.....

目录

CONTENTS

1. 中国社保数字化转型发展历程

Development of China's social security digital transformation

2. 社保数字化转型总体规划

Overall plan of social security digital transformation

3. 推动“大平台”建设

Promoting the construction of "big platforms"

4. 构建“大服务”体系

Building a "big service" system

5. 助力“大数据”监管

Facilitating "big data" supervision

6. 保障数据安全

Ensuring data security

7. 课题任务及下一步工作

Project tasks and next steps

“中国社会保险经办管理服务数字化转型课题” 任务

Project on *Digital Transformation of Social Insurance Administration and Services in China*

社会保险数字化转型 现状分析 Status-quo analysis

- ◆ 分析试点地区业务经办、公共服务、数据共享、数据治理等方面现状，总结推进数字化转型及数据治理中的重难点问题
- ◆ Analyse the current status of operation, public services, data sharing and data governance in pilot areas, and summarize key issues in promoting digital transformation and data governance

社会保险数字化转型 战略 Strategies

- ◆ 结合社保信息化整体建设规划，研究起草社保数字化转型战略草案
- ◆ Draft a strategy proposal for the digital transformation of social security, according to the overall construction plan for social security informatization

社会保险数字化转型 数据治理方案 Data governance solution

- ◆ 根据中国社保领域数据治理情况，明确数据治理流程，研究起草社保数据治理行动草案
- ◆ Define the data governance process and study and draft social security data governance actions based on current data governance in China's social security

下一步工作 Next steps

1.落实便民服务创新提升行动：Innovation and improvement of citizen-friendly services

全数据共享、全服务上网、全业务用卡
Full data sharing, online access to all services, all services by the card

2.夯实数据基础：Strengthen the data base

准实时归集数据，持续提升数据质量

Real-time data collection and improvement of data quality

3.用好社保数据：Make full use of social security data

优化服务，支持经办，防范风险，大数据分析

Optimize services, support operation, prevent risks and analyse big data

5.完成数字化转型课题研究：Complete project research

借鉴国内外先进经验，形成社会保险经办管理数字化转型战略和数据治理方案

Propose a digital transformation strategy and data governance plan for social insurance services and administration, drawing on experience at home and abroad

4.提高数字化意识：Raising digital awareness

全流程信息化、全面归集数据、保障数据安全

Full process informatization, comprehensive collection of data, ensuring data security





谢谢!

Thank You!

