

# **THE REPUBLIC OF KAZAKHSTAN**

**“BASTAU” METHODOLOGY AND SOFTWARE PACKAGE**

**Big Data Spatial Visualization Technology for Multinational  
Corporations and Government Entities**

**THE ESSENCE OF INNOVATION:**

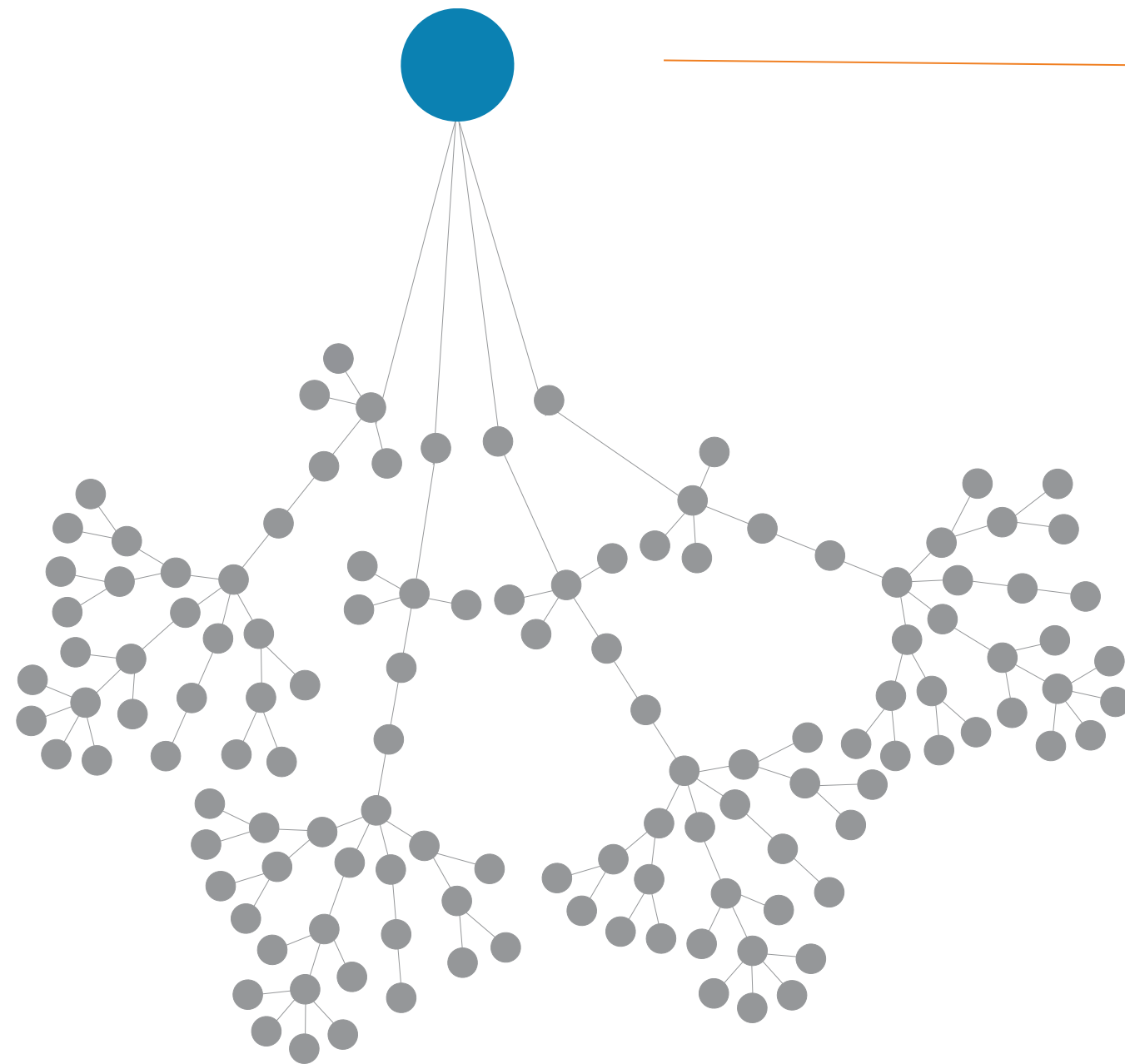
**A NEW STAGE IN EVOLUTION OF  
MANAGEMENT THEORIES, PHILOSOPHIES,  
PRACTICE AND THOUGHTS**

**WE ARE CREATING  
A NEW METHOD OF MANAGEMENT**

# A DATABASE FOR ADOPTING STRATEGIC DECISIONS

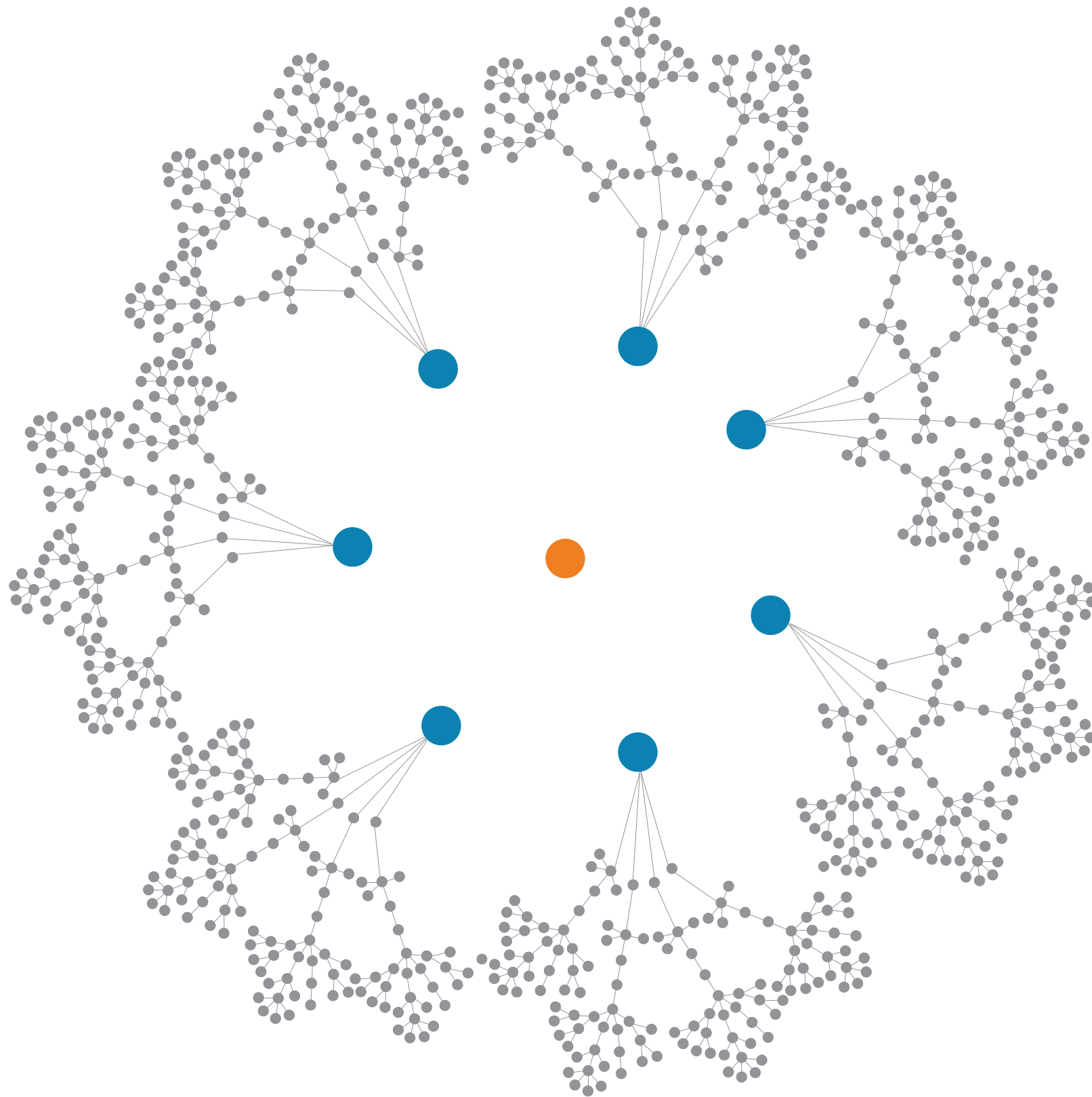
- full structure of an organization
- data on key leaders
- map of divisions and development plans
- distribution of financial flows
- staffing
- key projects
- tangible and intangible assets
- key customers, partners and contractors

# METHODOLOGY



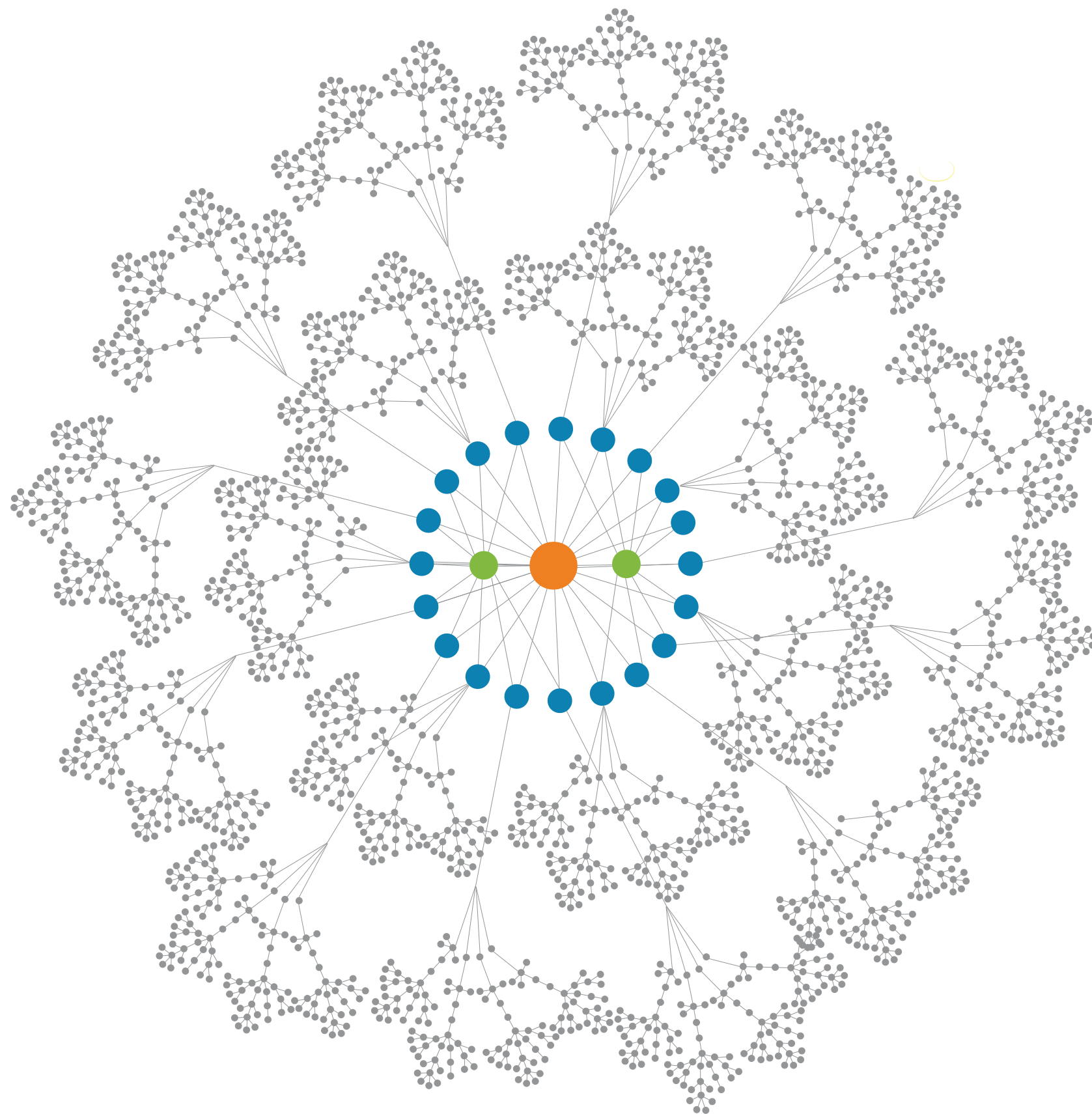
**AN ORGANIZATION  
STRUCTURE**

# METHODOLOGY



## THE STRUCTURE OF HOLDINGS

# METHODOLOGY



**A GOVERNMENTAL  
STRUCTURE**

## AN EXAMPLE OF A SUBSIDIARY COMPANY IN KAZAKHSTAN



**MINISTRY OF AGRICULTURE  
OF KAZAKHSTAN**

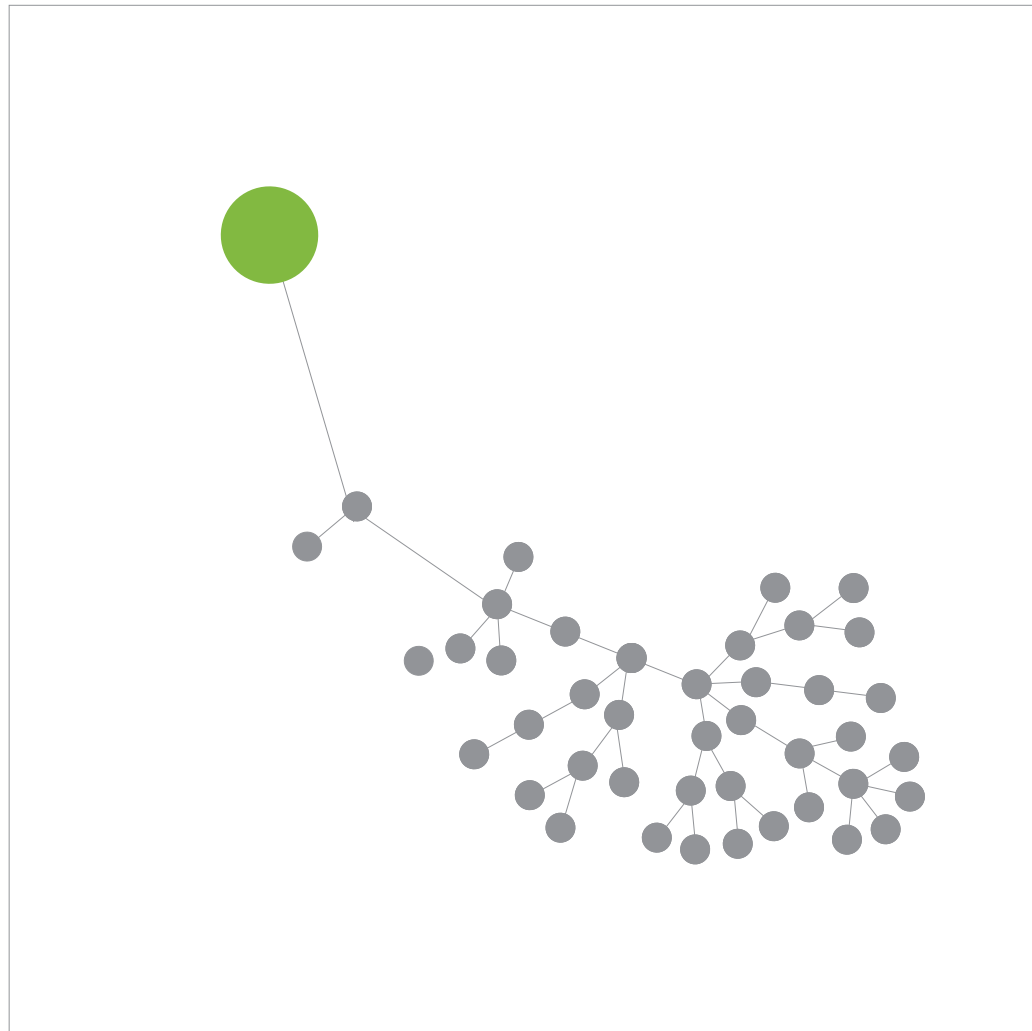


**JSC “NATIONAL AGRARIAN SCIENTIFIC  
AND EDUCATIONAL CENTER”**

There are 47 legal entities, including:

- 24 Research Institutes
- 17 Experimental Farms

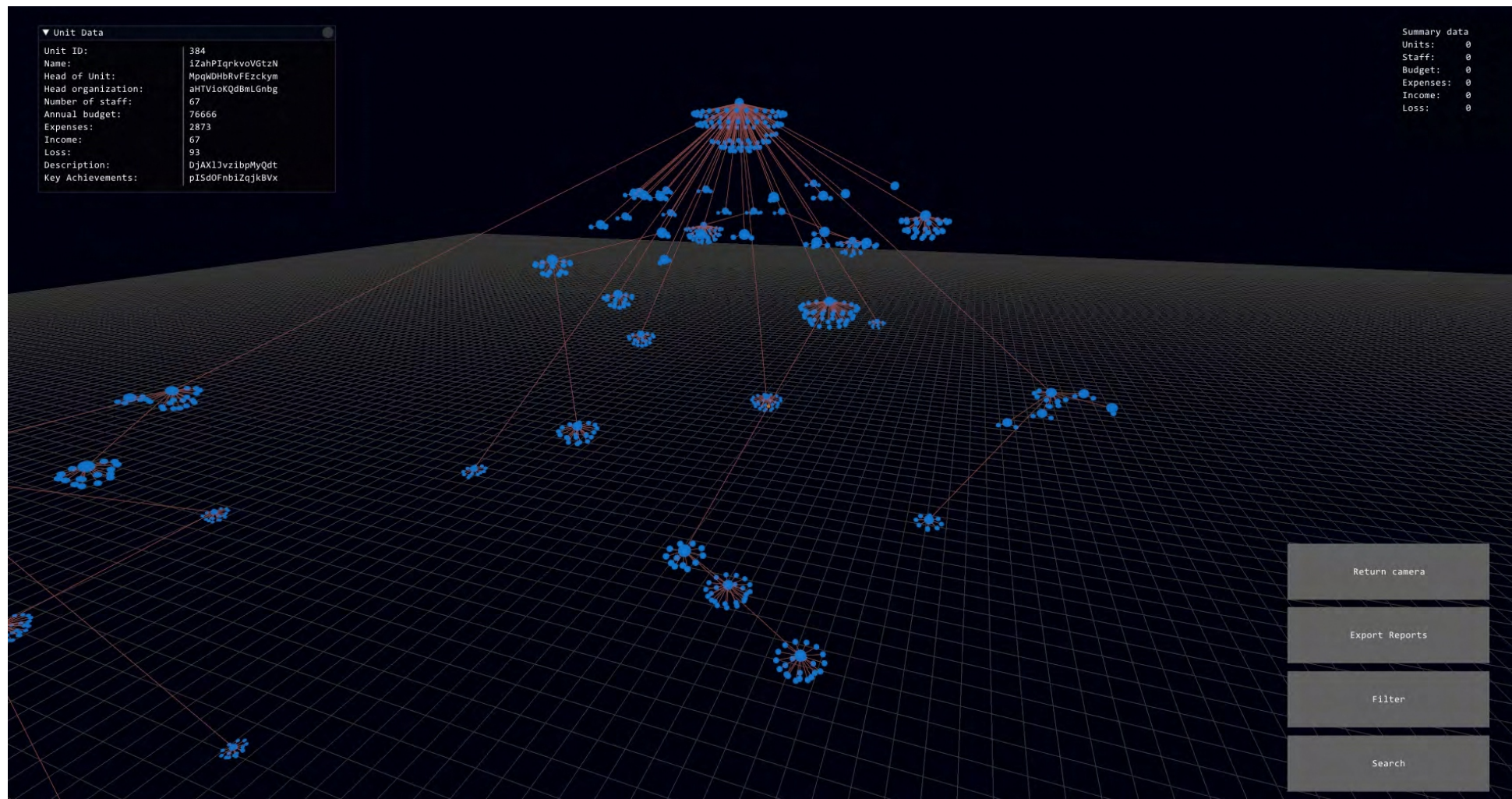
- 3 Service Companies
- 3 Agrarian Universities





# TECHNOLOGY

A new generation information platform that supports the management activities of large organizations by projecting key organisation data structures into 3D spatial visualization format

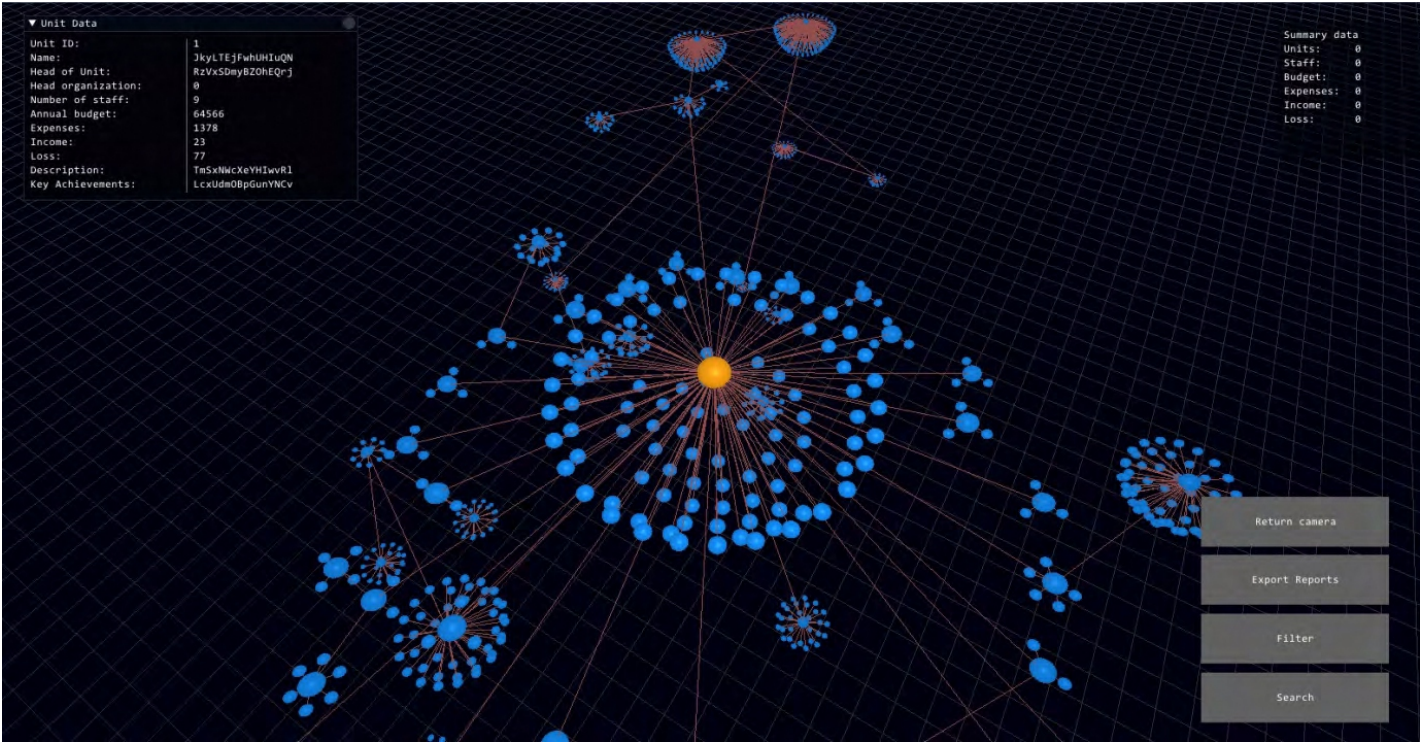
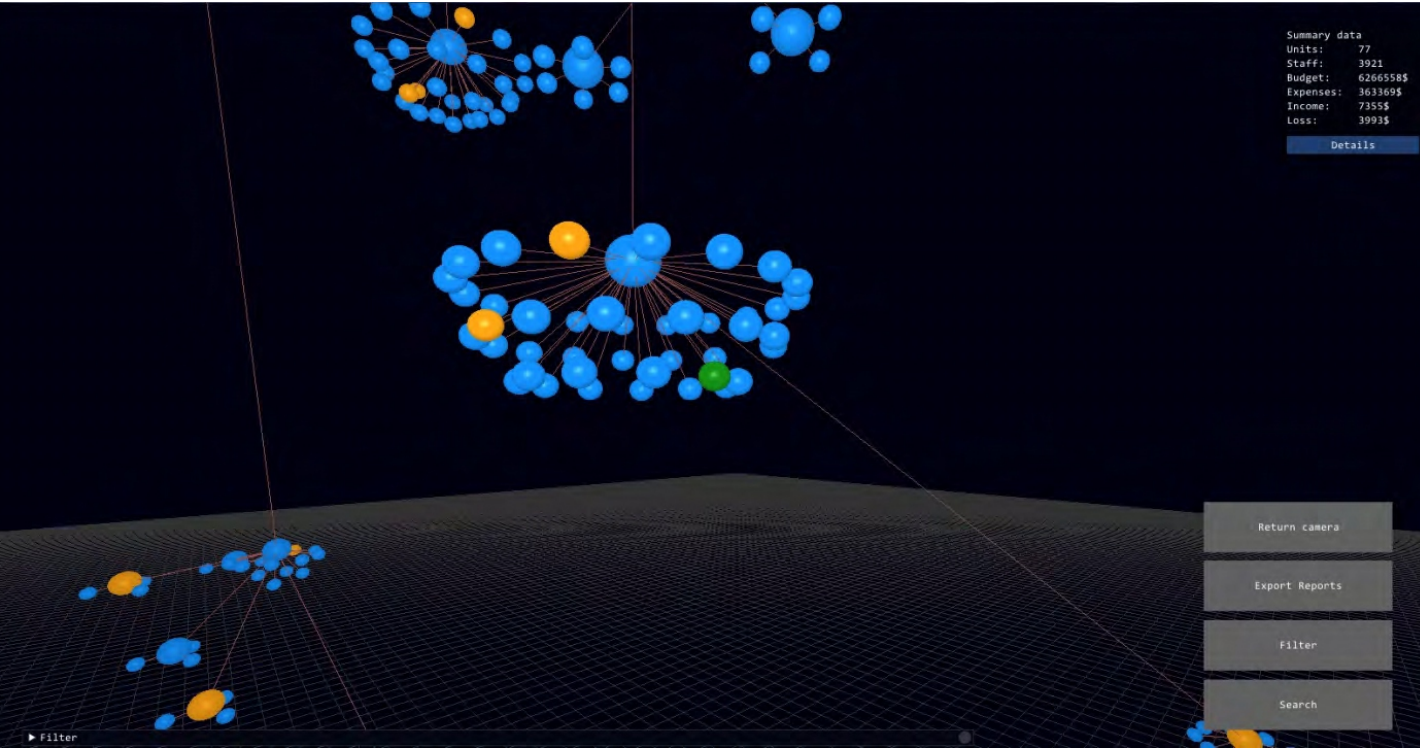
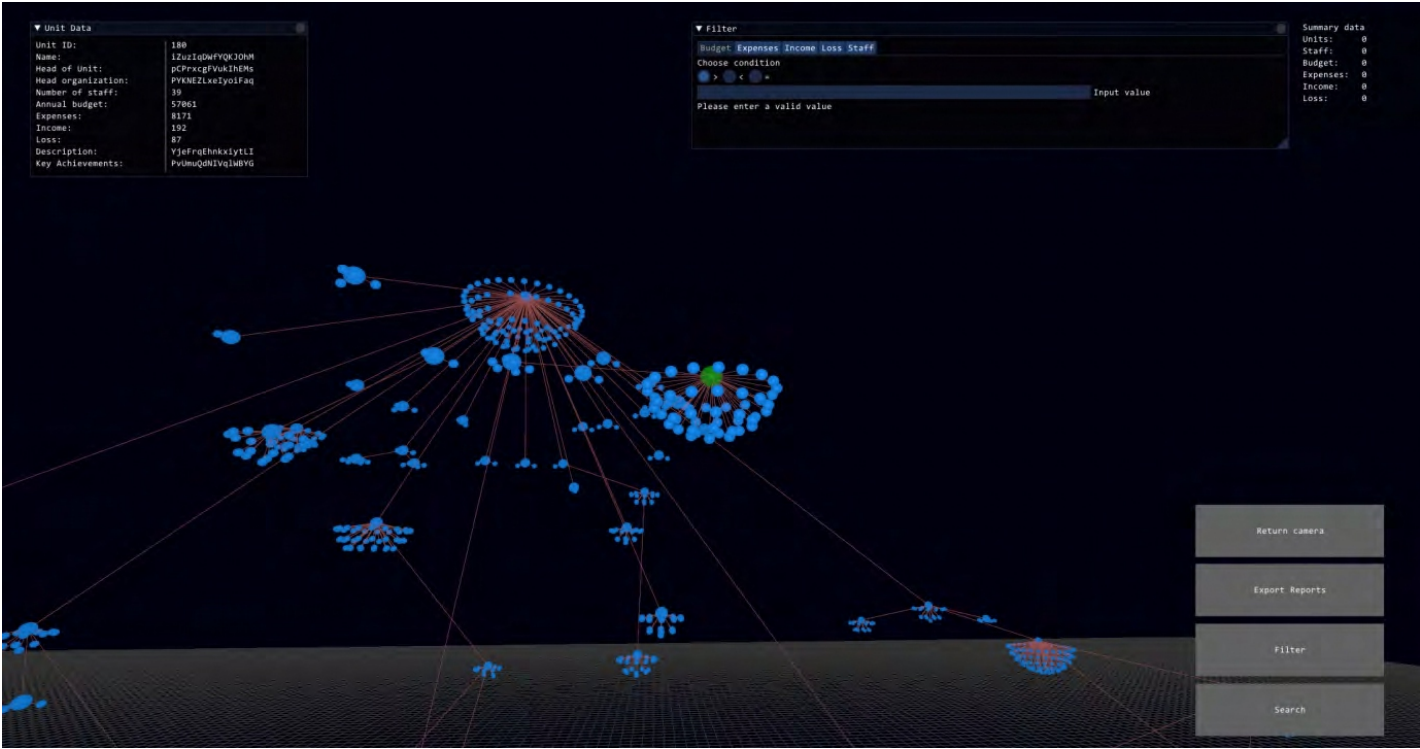


- system analysis of the structure
- instant access to the data in real time
- simulation
- monitoring
- interactivity

- high-speed data collection
- coordination of activities

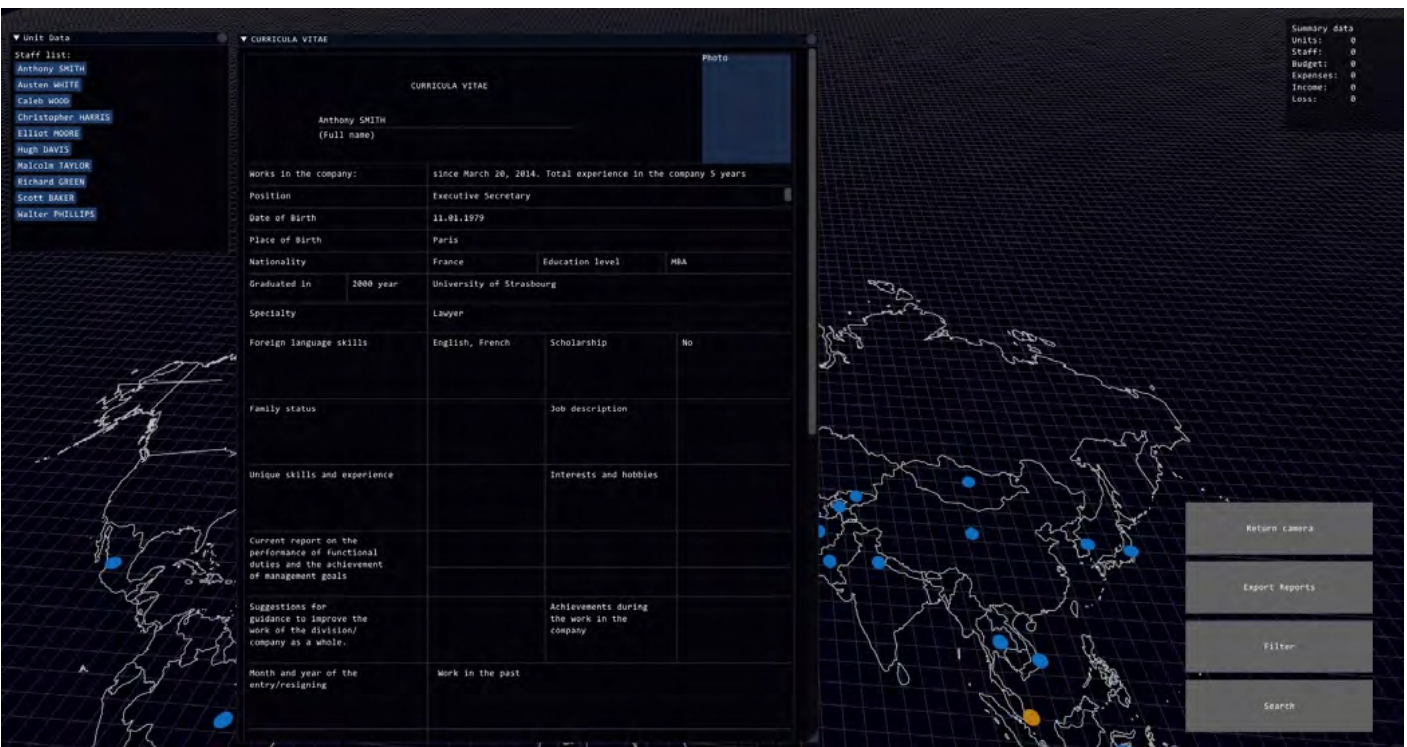


# VERSION 1.0





# VERSION 2.0





## FEATURES & SPECIFICATIONS

A completely new management tool that will provide “one-click” access to data on leaders, budgets, staff, income or loss, revenue, list of fixed assets, missions and the performance of any of the hundreds or thousands of branches and structural units of users’ organization.

Users can instantly summarize data for any group of units, select and display units by any of the following criteria:

- the budget above or below the desired indicator
- the number of staff
- income or loss
- activities

The technology allows for an instant formation of consolidated reports, which saves hundreds of hours of labor collecting summary data.

# CUSTOMER BENEFITS

- Significant improvement in management efficiency, saving financial and human resources of the organization, ensuring transparency, effective feedback
- Formation of national/general corporate databases on areas of responsibility, tasks, results of work of each structural unit
- Acceleration of the speed of making management decisions, thereby improving the quality and reliability of service information
- Reducing the number of office documents and correspondence

# CONSUMERS



| Private sector                   | Public sector       | International organizations              |
|----------------------------------|---------------------|--|
| Corporations, holdings           | Government Entities | Transnational companies                  |
| Banks and financial institutions | National companies  | International companies                  |
| Trading networks                 | Joint ventures      | Headquarters of integration associations |
|                                  |                     | Consulting companies                     |

Key audience: **Forbes2000 companies,**  
Governments of most  
developed countries

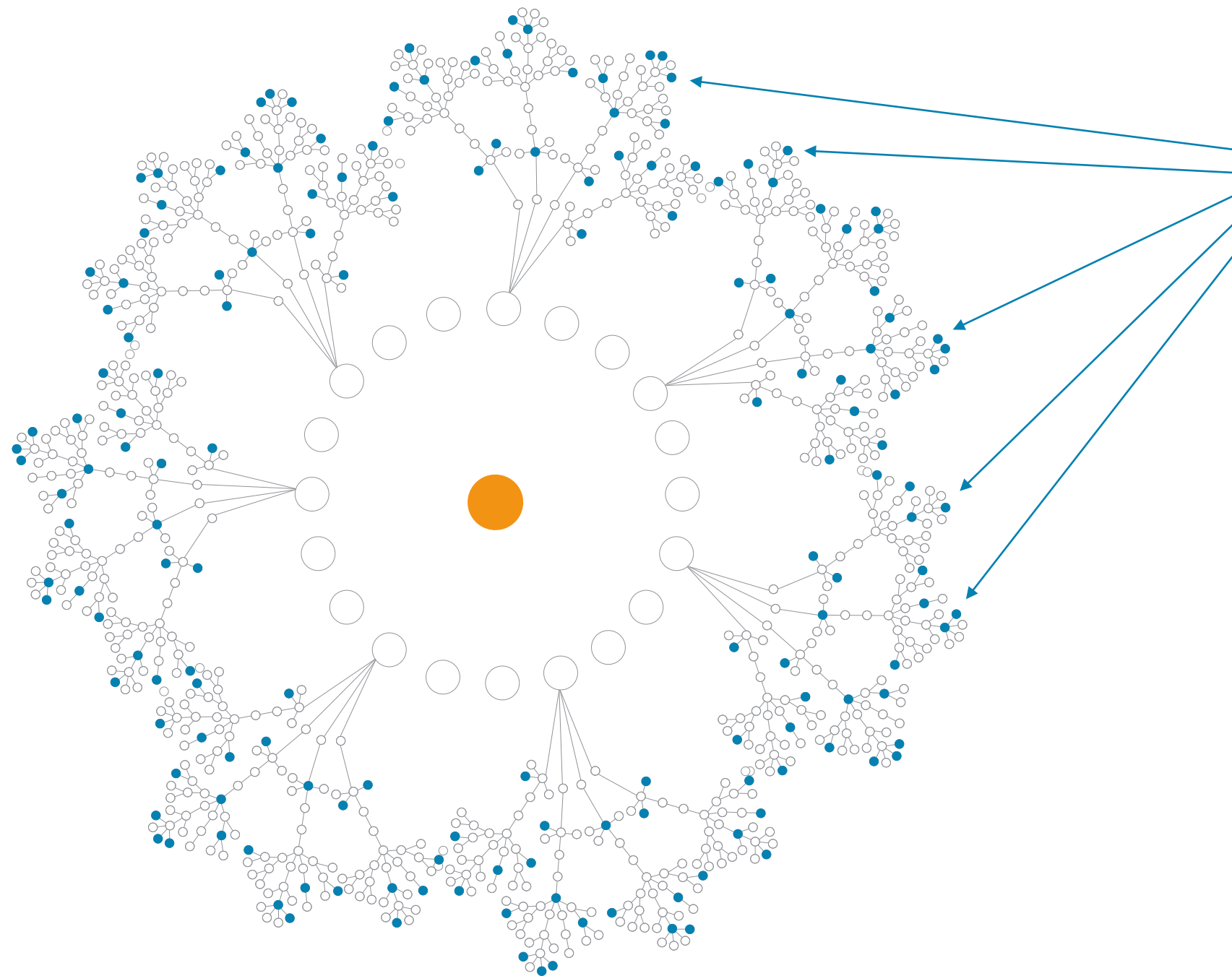


**Creation of  
Situational  
Information-Analytic  
Centers**



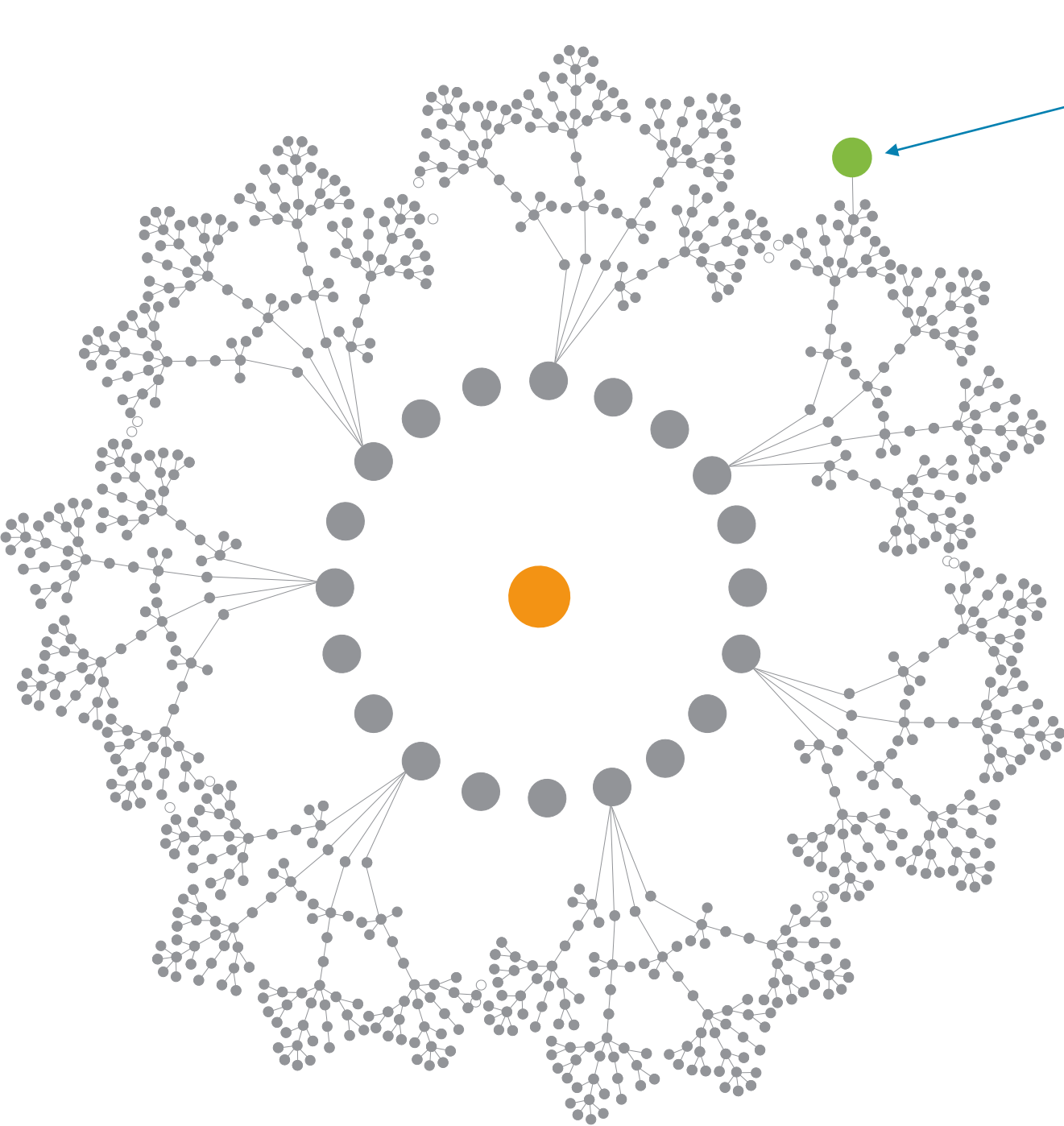
# AREAS OF APPLICATION

# HUMAN RESOURCES POLICY



**The management can instantly get data about any employee of the organization**

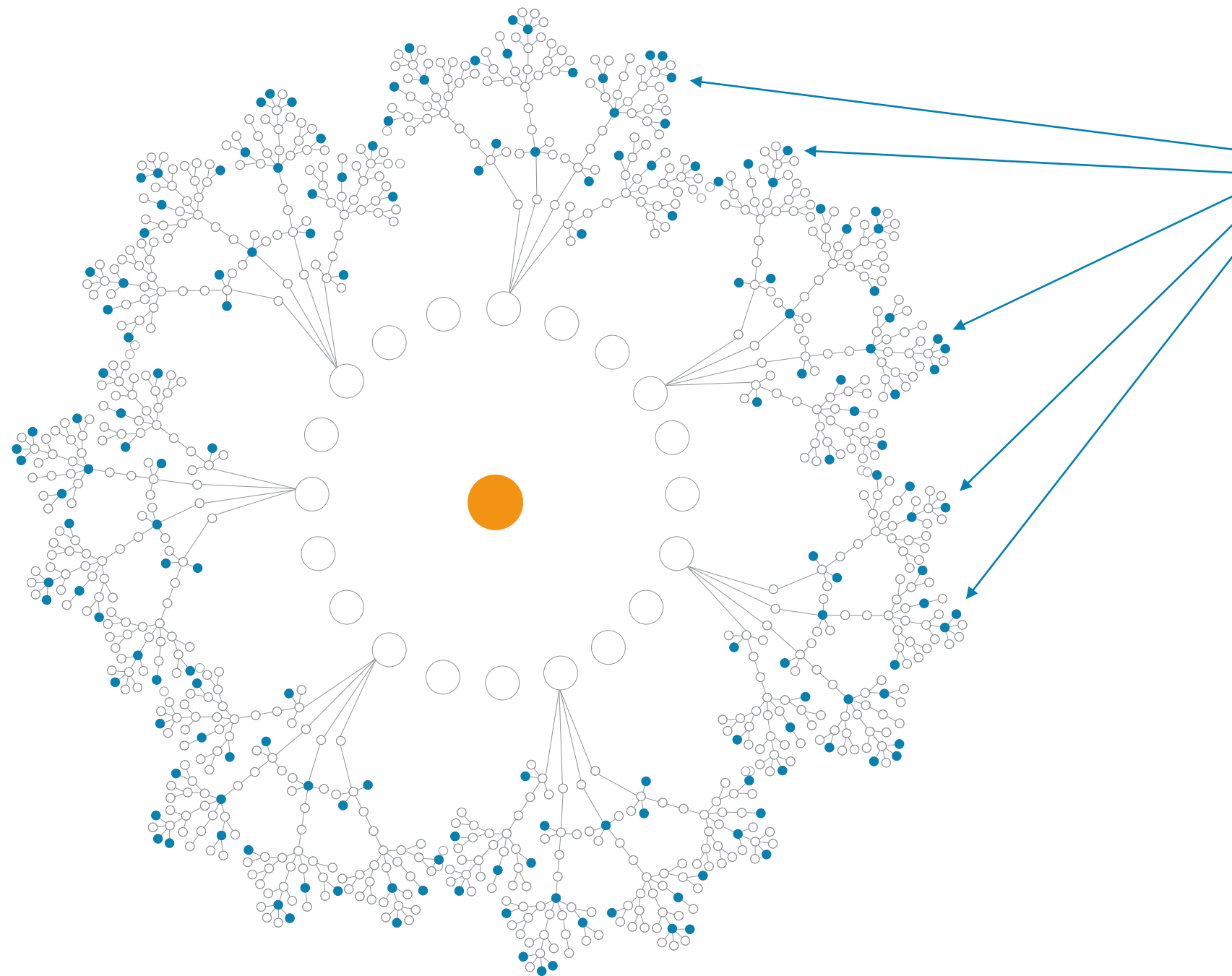
# MONITORING OF RESOURCES AND EFFECTIVENESS OF DIVISIONS



|                             |  |
|-----------------------------|--|
| Division name               |  |
| Name of the higher division |  |
| Head of Devision            |  |
| Staffing                    |  |
| Purpose                     |  |
| Budget                      |  |
| Assets                      |  |
| Income/Loss                 |  |
| Revenue                     |  |
| Expenses                    |  |
| Payroll Fund                |  |
| Performance Indicators      |  |
| Activity Reports            |  |

By analyzing this data, it is possible to match the available resources with tasks of each subdivision along with real outcomes of its operating activities

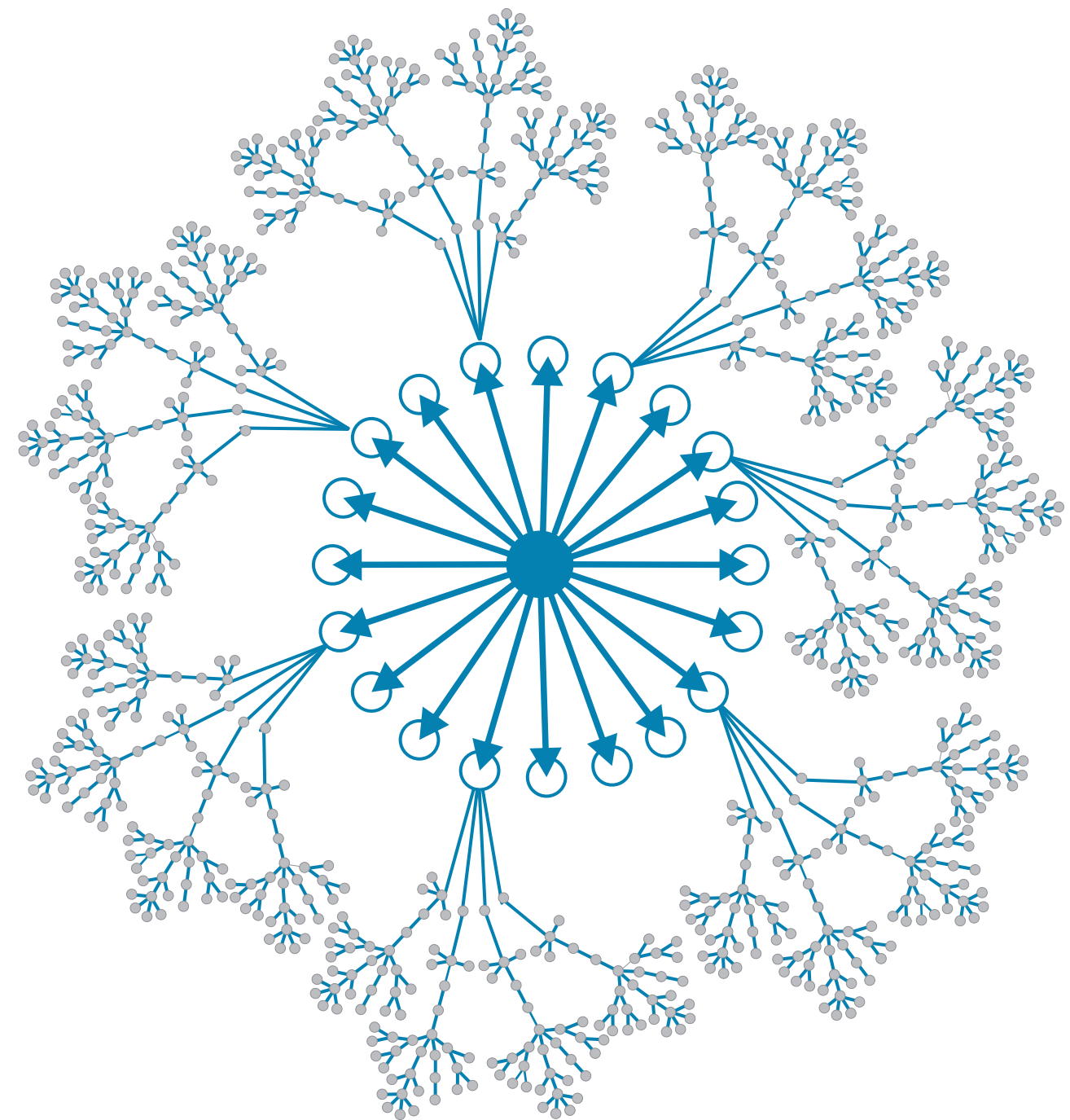
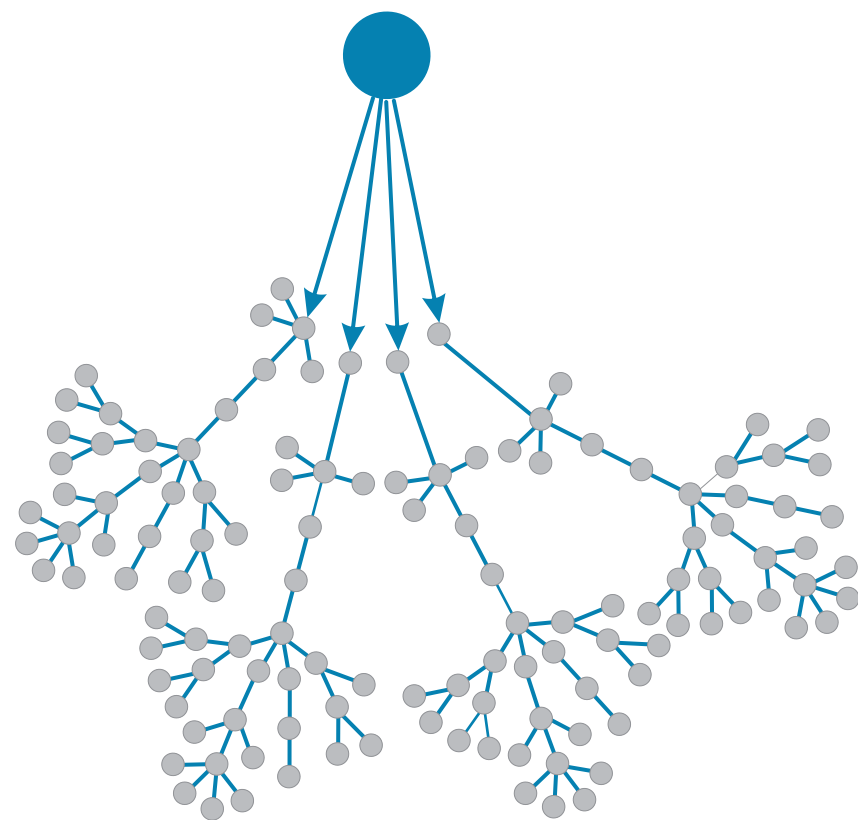
# IDENTIFYING AND MONITORING FOR THE IMPLEMENTATION OF STRATEGIC GOALS



An analysis of different goals. For instance, the current state and level of development of innovations in various fields - medicine, agricultural and industrial sectors, information technology and education within Government entities

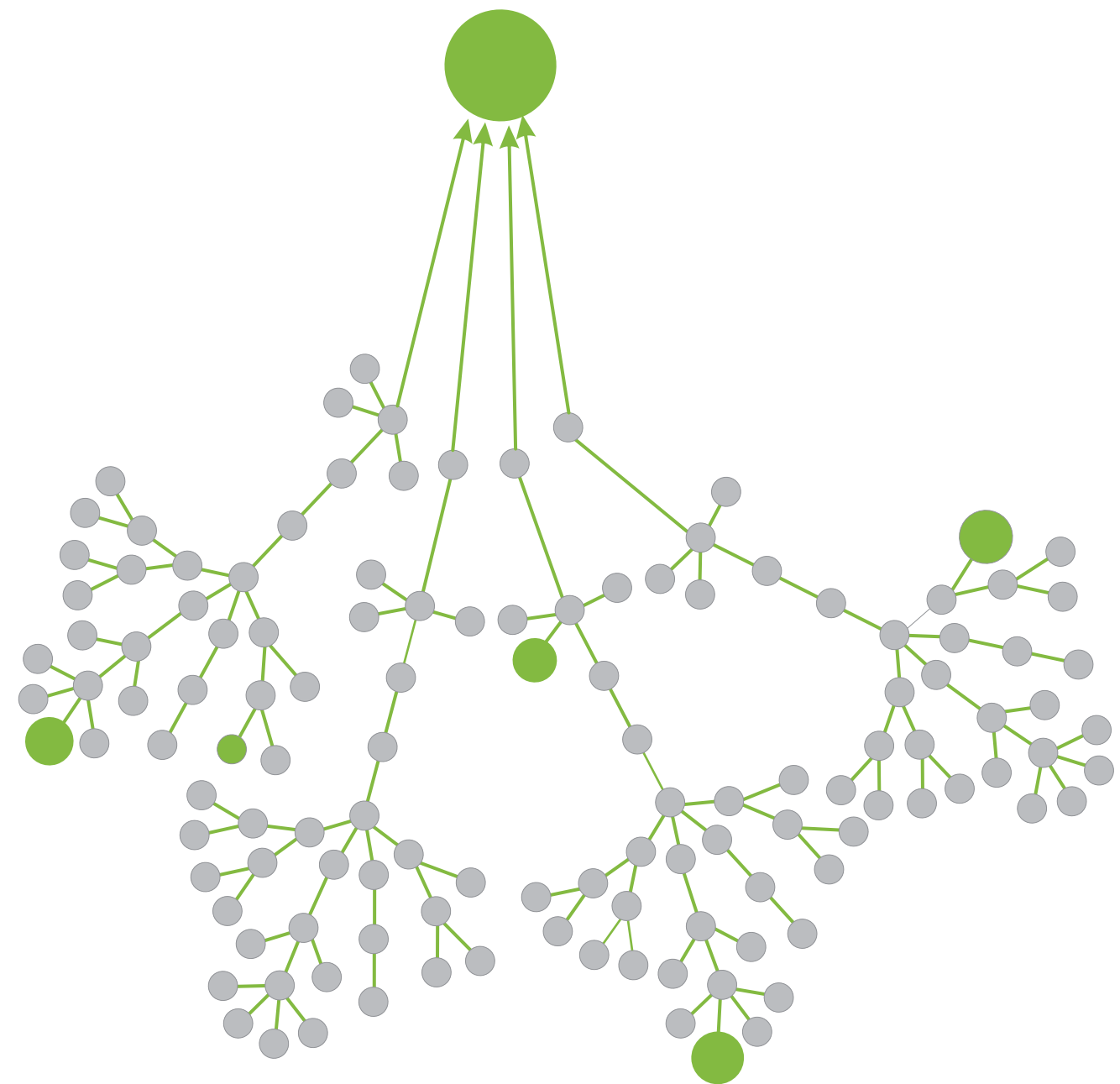
# DISTRIBUTION OF FINANCIAL RESOURCES

At each level/stage one can find out how a division manages its administrative expenses, awards and bonuses, and how much resources it transfers to "downstream" organizations



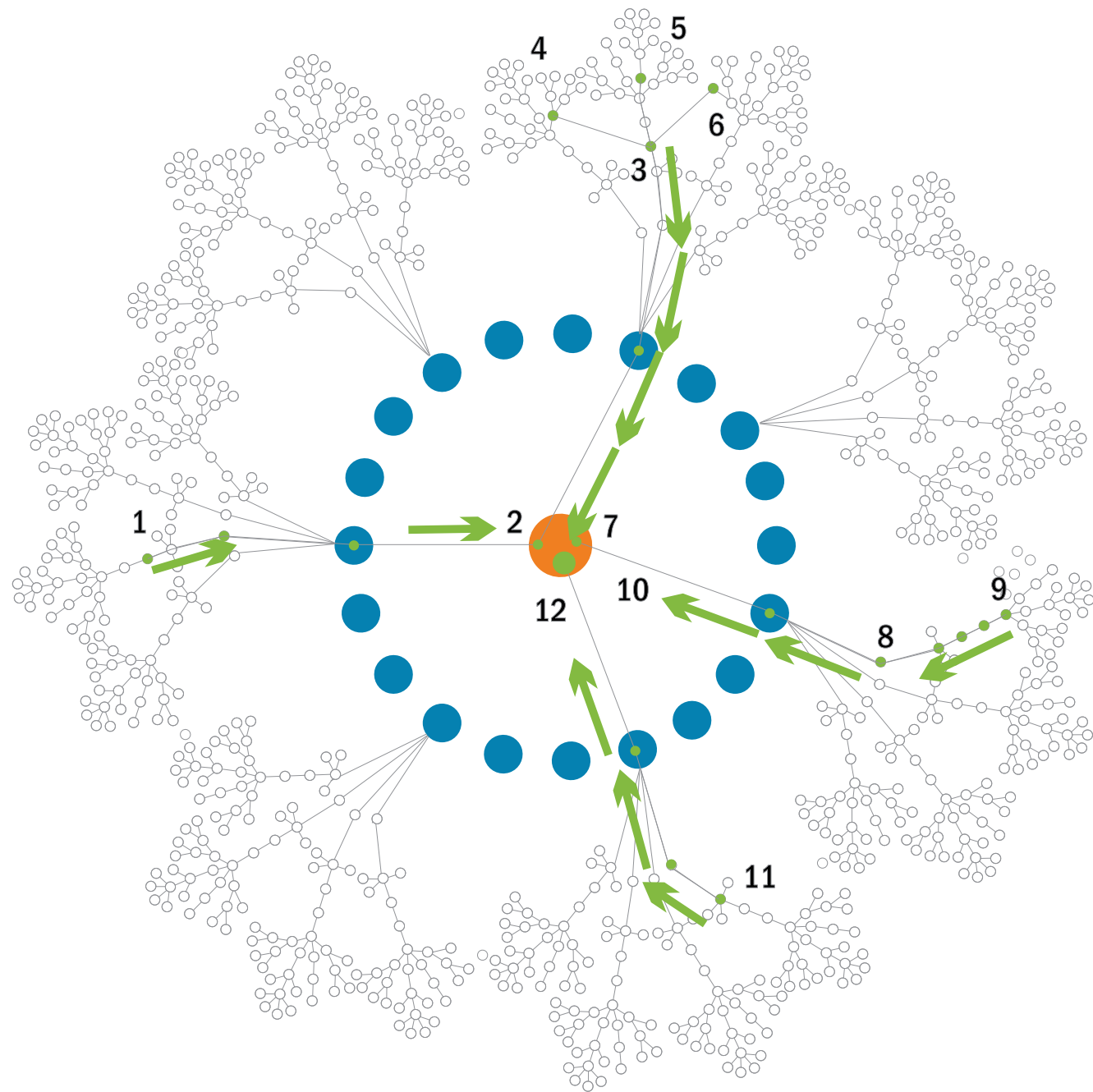
# FINANCIAL ANALYSIS

A possibility to trace the reverse process - collecting funds from divisions that generate income to the general budget, identify those who bring the most or least income





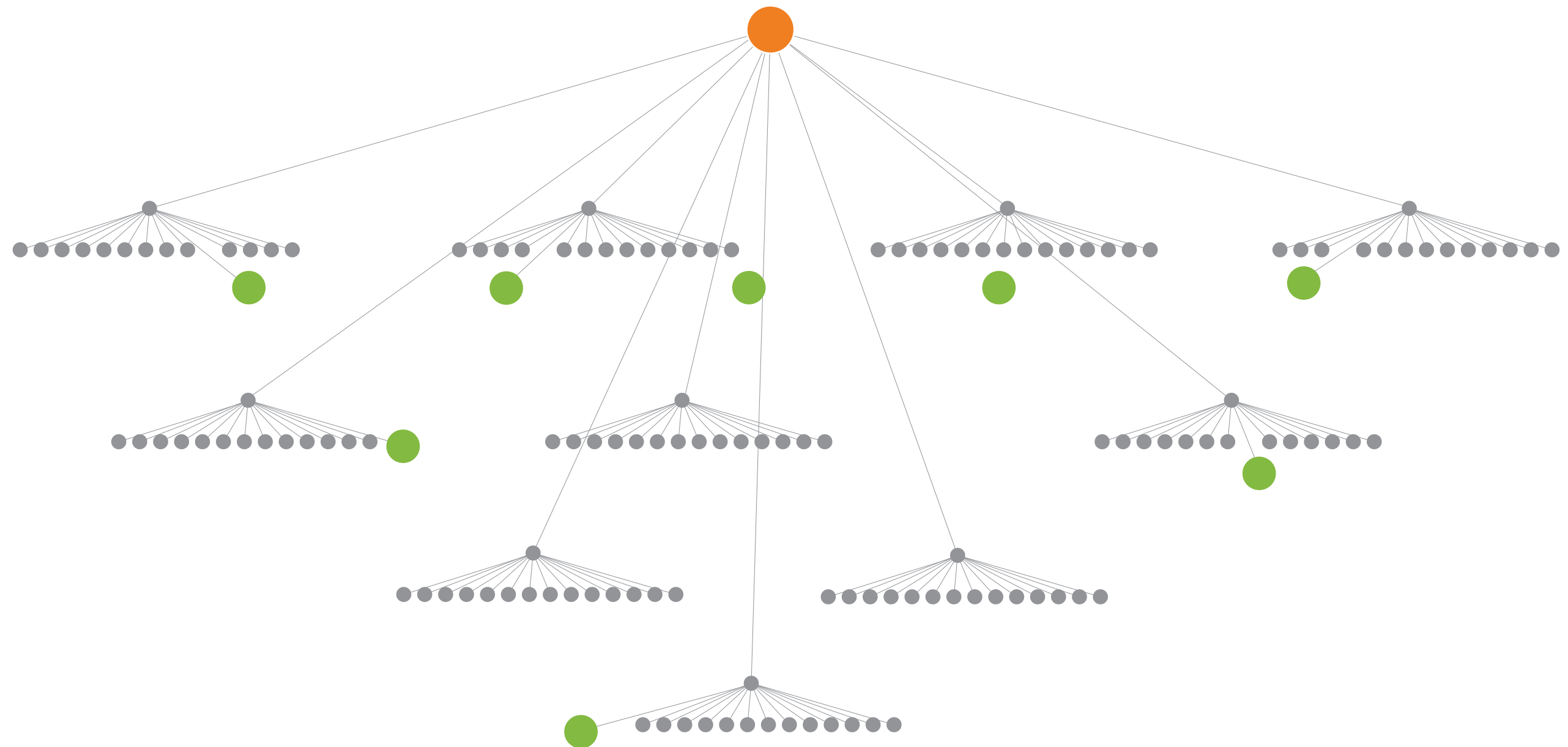
# STATUS OF PROJECTS' IMPLEMENTATION WITHIN AN ORGANIZATION



An evaluation and pre-planning of large projects, studying the implementation progress, deadlines and expected results

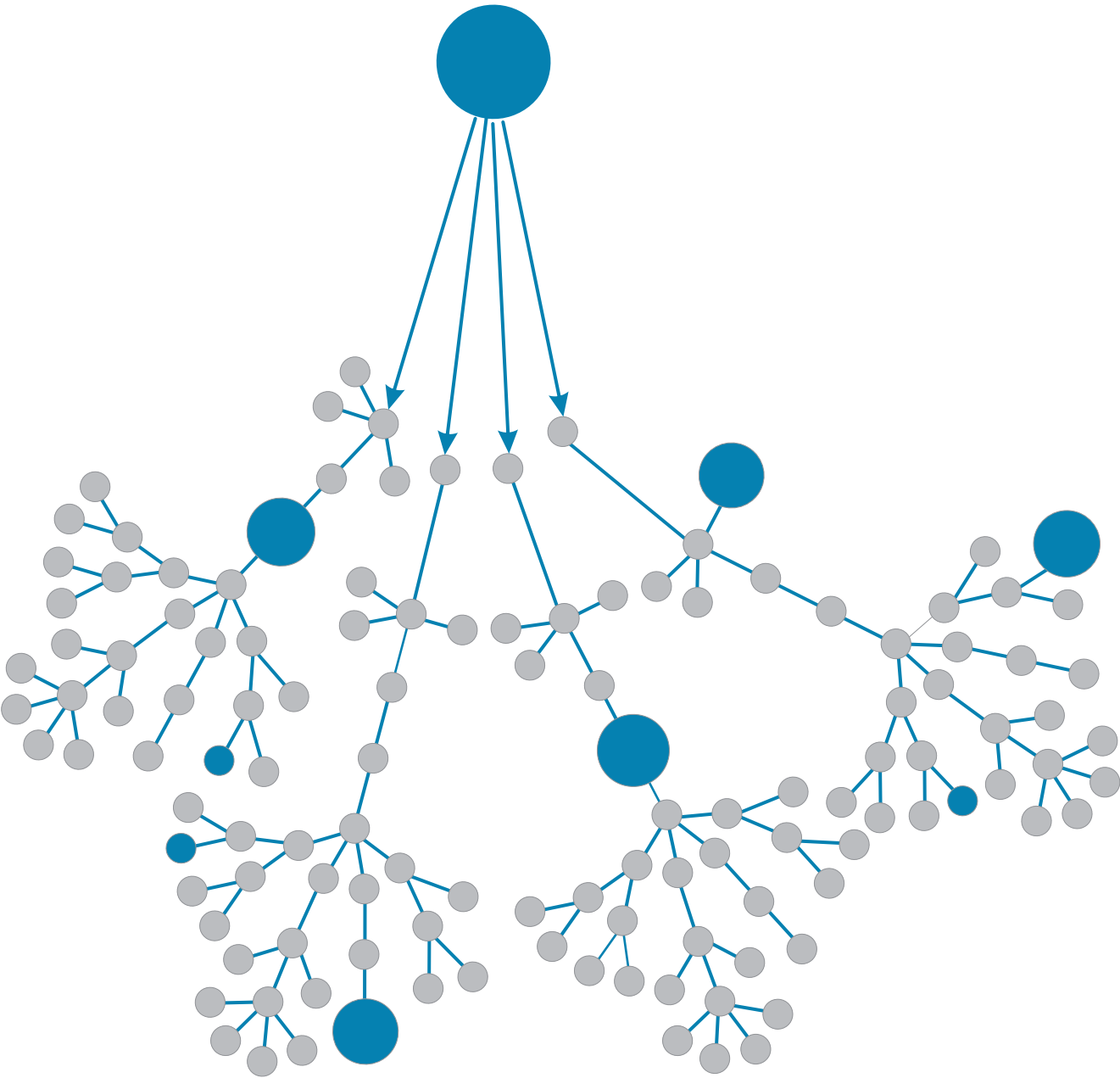
# MANAGEMENT WITHIN TRADING COMPANIES WITH EXTENSIVE BRANCH NETWORKS

Identification of the most successful units. Analysis of success factors  
to implement experience in the entire network



# FINANCIAL ANALYSIS

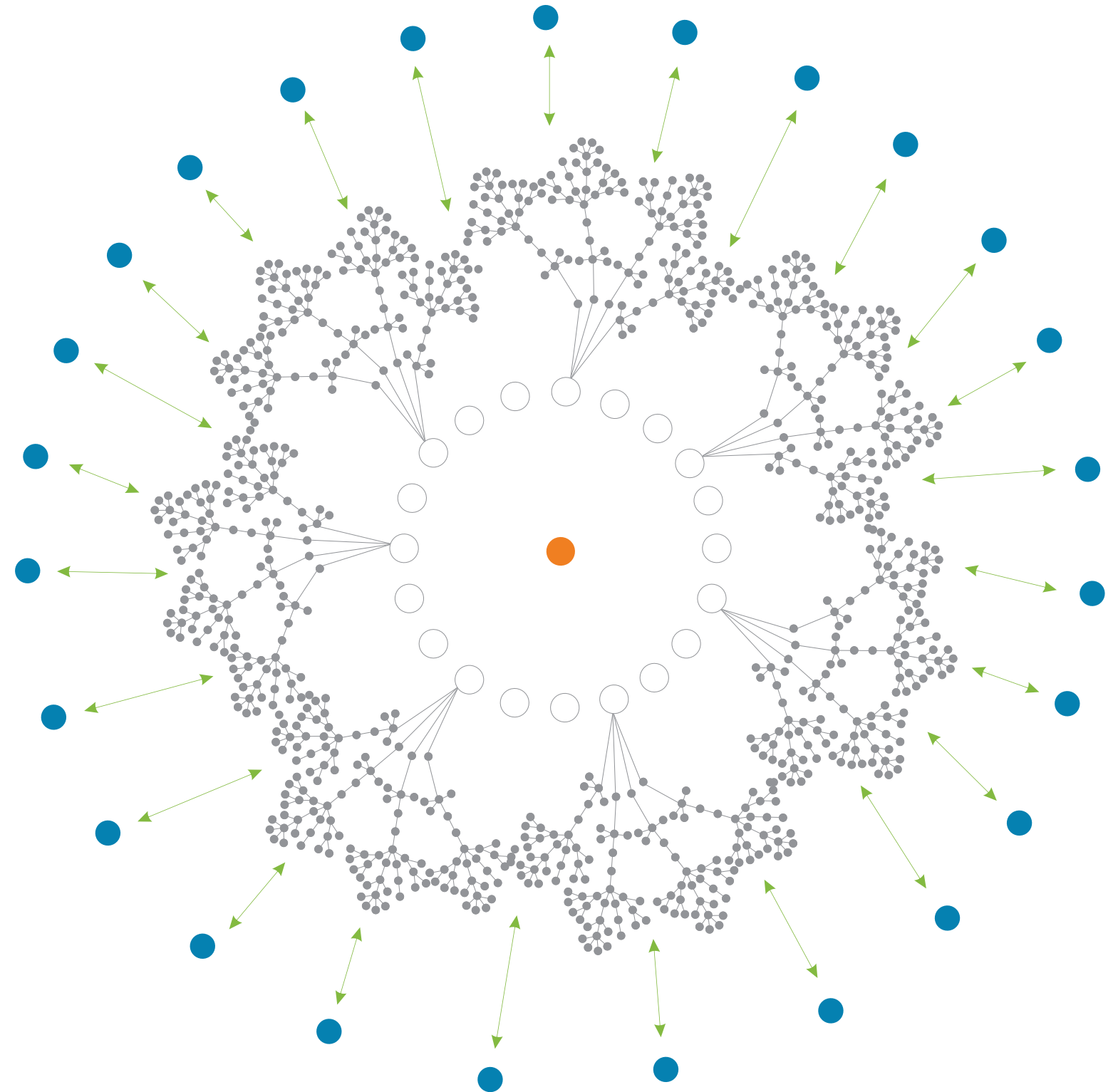
## Monitoring of major expenses



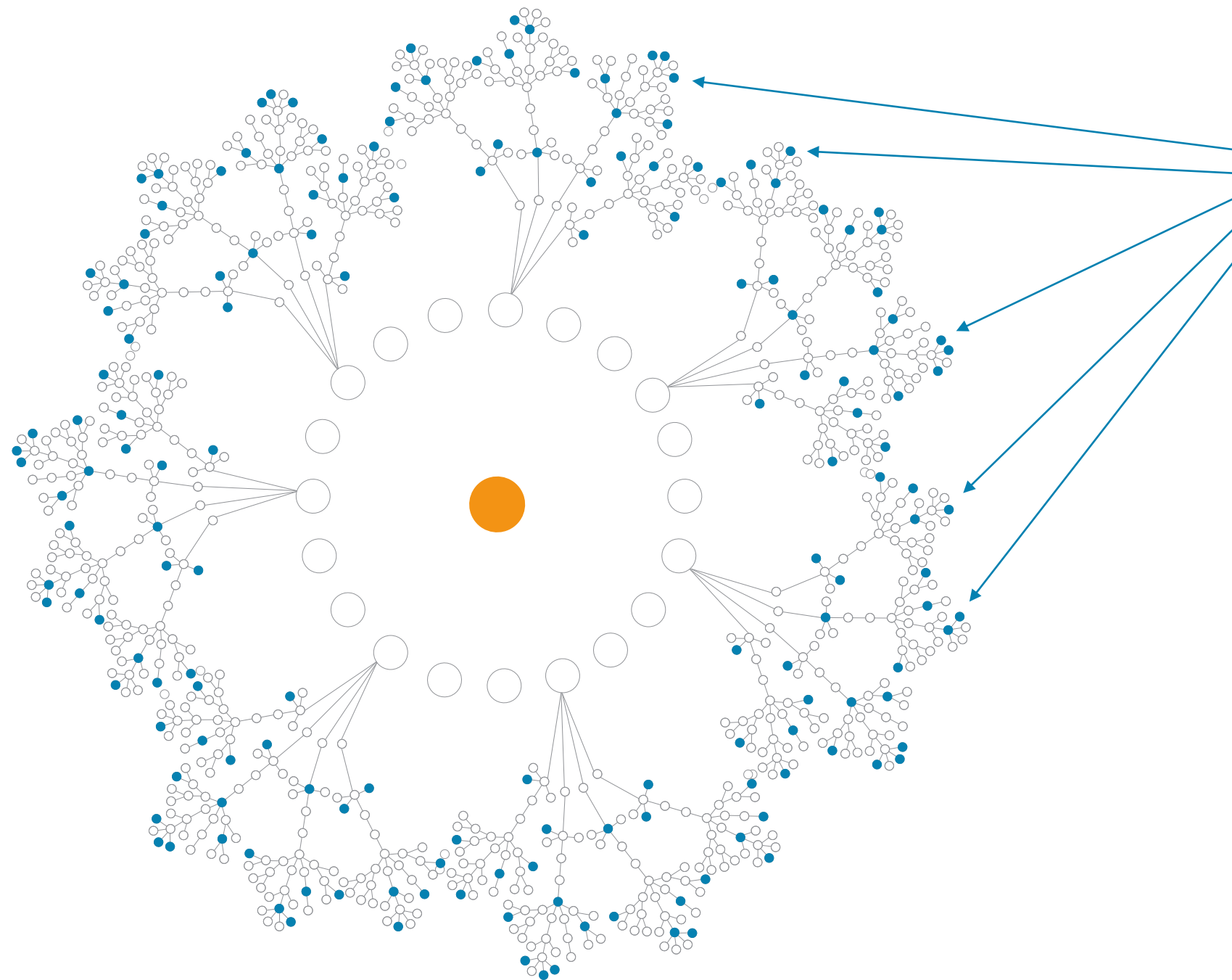
# INTERACTION WITH EXTERNAL PARTNERS

Database of clients and suppliers

Direct access to data on  
agreements, responsible  
executors, contract  
amounts, existing  
creditors and debtors etc.



# IMPLEMENTATION OF THE PRINCIPLES OF MERITOCRACY. ANTI-CORRUPTION FIGHT

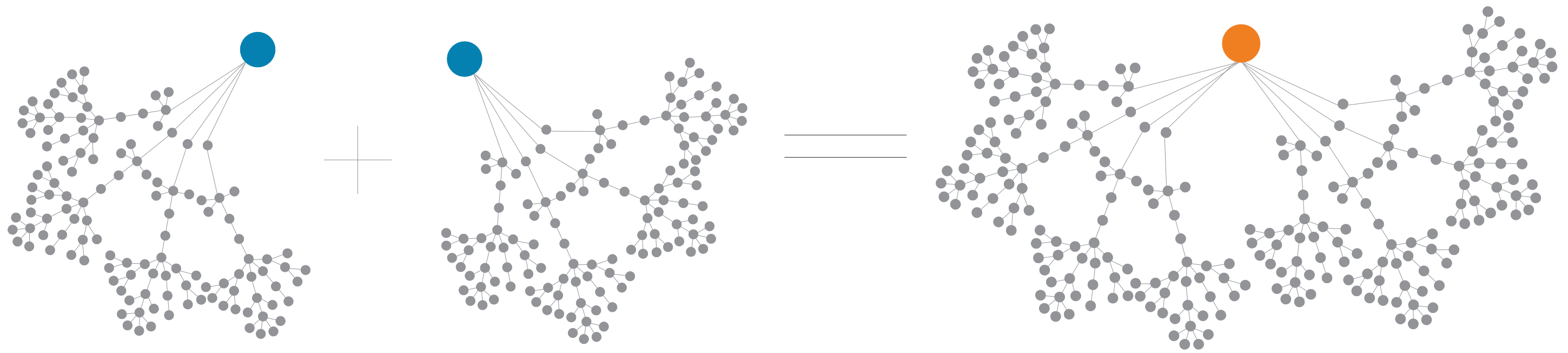


**Mechanisms for preventing corruption**

**Identification of managers responsible for making the most complex and integrated decisions on the development of strategic directions, elaboration of development programs and distribution of key financial resources**

# SIMULATION AND MODERNIZATION

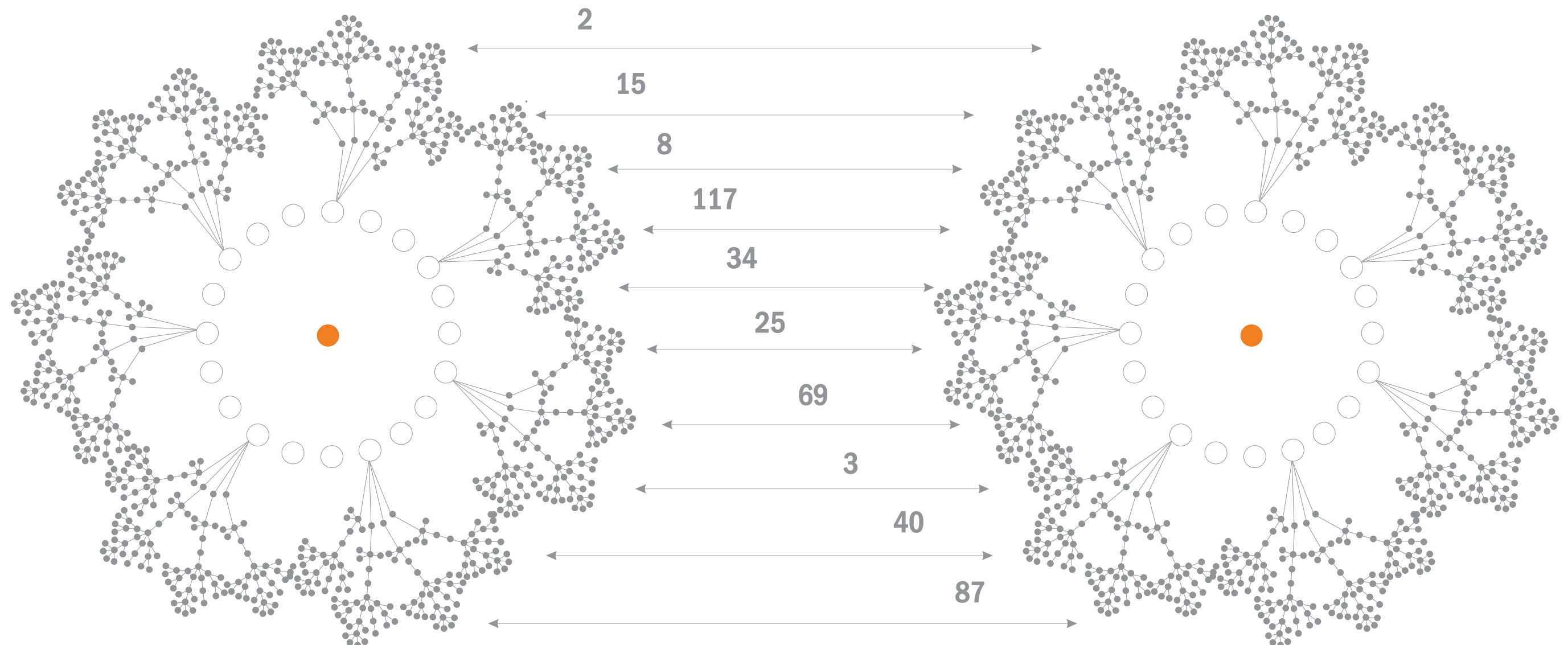
Identifying duplicate functions, excessive number of subordinate organizations - “daughters”, “granddaughters”, “great-granddaughters”, etc.), as well as multi-level boards of directors at various levels, non-core assets and moving assets to the "invisible" strata. Modeling of the structure, including a new variants of functional load, labor, material and financial resources for various divisions



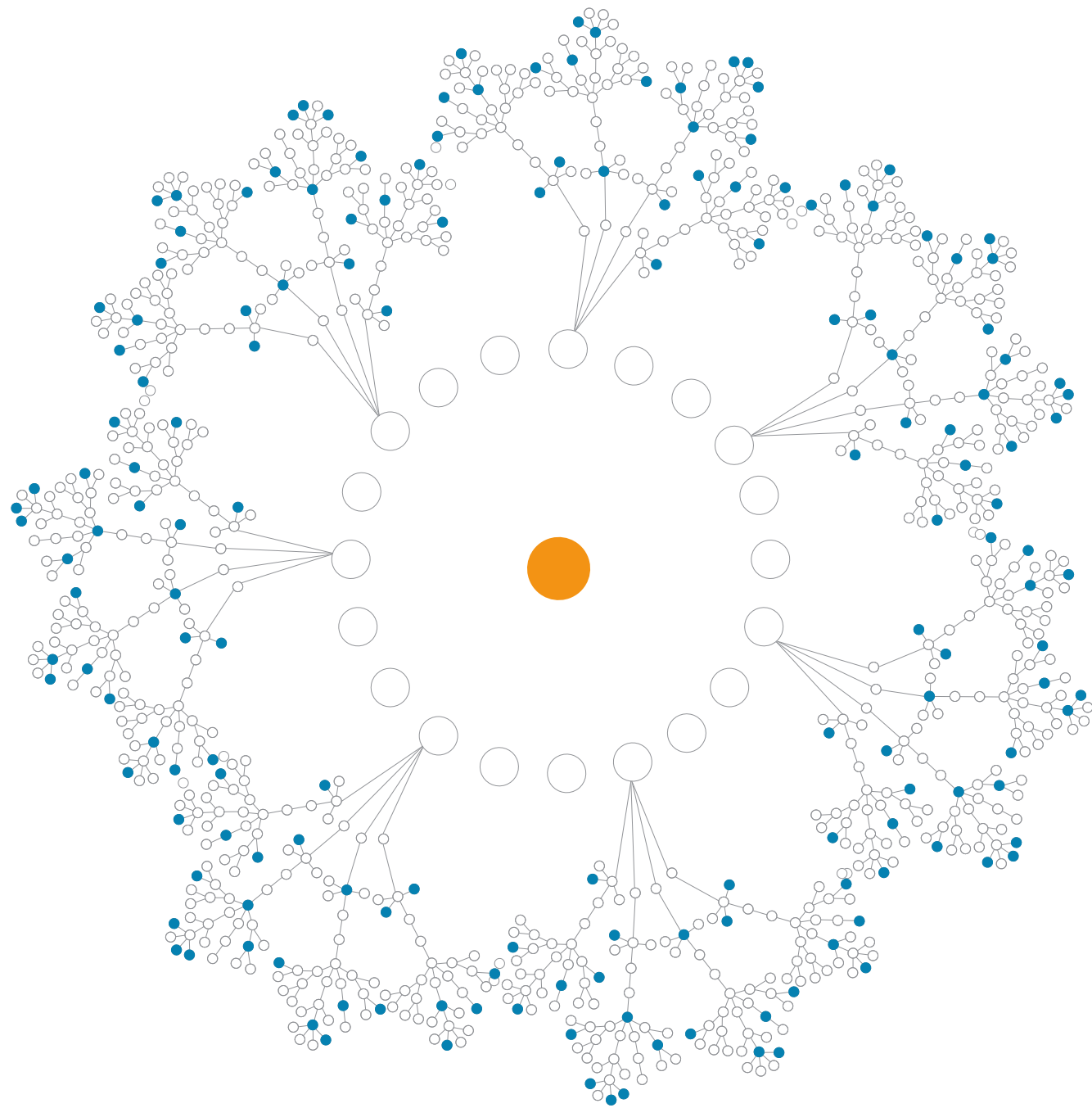


# INTERNATIONAL COOPERATION

Interaction with Governments of foreign States.  
Increasing various indicators for each area enhances integration  
processes between States - economy, culture, military and technological  
cooperation, etc. Database of Agreements and Representatives from  
both sides



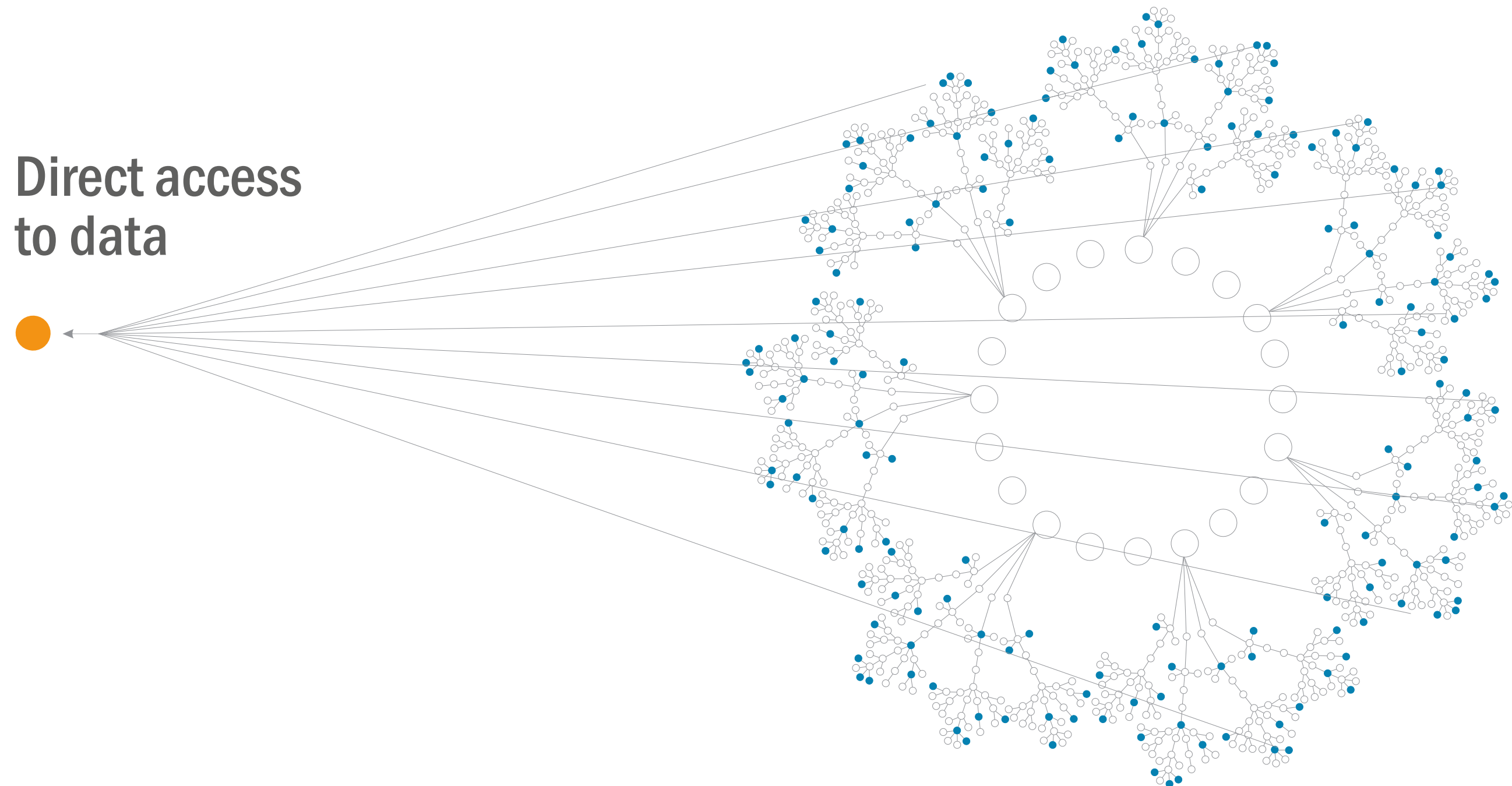
# INFORMATION POLICY AND PROPAGANDA



**Identifying support tools for citizens.  
Description of the State achievements  
in various fields. This is articularly  
important for the public sector**

# PRINCIPLE OF INFORMATION COLLECTION

The new methodological approach facilitates the process of collecting reports, and also avoids the “distortion” of information when data passes through too many hands



**THANK YOU FOR YOUR ATTENTION!**