DECISION

OF THE CENTRAL COMMITTEE OF THE ROMANIAN COMMUNIST PARTY

on the improvement of the social-economic informational system, the introduction of management systems with data automatic processing means and the endowment of the national economy with computation technics in the 1971—1980 period

In the conditions of the increasing complexity of the national economy, the requirements for planning and social-economic management impose the granting of ever greater attention to the informational aspects of human activity in the work process and in the taking of decisions which should contribute to the progress and proper functioning of the enterprises, organizations and of society as a whole, in concordance with the goals of building the manysidedly developed socialist society.

The creation of a comprehensive and efficient informational system is the essential co-ordinate for improving activity in all the fields and branches of national economy.

Experience has shown that the achievement of a scientific management of economic and social life, based on the observance of the requirements of the objective laws on the development of society is conditioned by the existence of a recording which should allow the multilateral knowing of facts and offer the necessary data for a thorough substantiation of decisions at all organizational stages. The informational system is playing an important role in the outling of the long-term processes of economic growth, in the investigation of new trends of technical and scientific progress and in the ensurance of large informational basis for the elaboration of long-term prognoses on branches and fields of activity and on the national economy as a whole. The informational system is of parti-

cular importance in the substantiation and pursuing of the fulfilment of the state plan and of all established tasks, in the grasping of negative phenomena and shortcomings and of the new problems cropping up in the economic-social activity with a view to rapidly adopting most efficient solutions and measures for the implementation, in good conditions, of the programme of social-economic development of the country.

With the general improvement of the social-economic informational system, with its organization in a unitary conception, an increased preoccupation is necessary for the endowment of the national economy with modern data processing means.

The use of electronic computing equipment in data automatic processing systems must be subordinated to the requirements of the management and organization of work and production.

On the basis of the decisions of the Nineth and Tenth Congresses of the Romanian Communist Party and of the National Conference of December 1967, a series of actions have been taken in our country for the improvement of the management and organization of the socialist units and for the introduction of modern computation technics in economy. Measures have been taken for the improvement of the organizational structures of the units and branches of the national economy and for a thorough substantiation of the plans; prognoses for the economic and social development of the country in the coming decades have started being drawn up. Efficiency has increased in the information of the leading organs on the progress in the fulfilment of the plan; measures have been taken for the rationalization of the informational system, the simplification of statistical and book-keeping accounts and for the improvement of the social-economic informational system throughout the territory; projects on the rationalization of technical-operative recording are now being tested. The elaboration of the first balance-sheet of the relations among branches is also in an advanced stage, a unitary classification and codification of products and services for the entire national economy has been adopted. Based on the programme approved of by the Executive Committee of the Central Committee of the Romanian Communist Party of June 1967, an organized action has started for the introduction of modern computation equipment in the national economy. The production of universal electronic computers of the third generation has started as well as of invoicing and book-keeping electro-mechanical machines, of office electronic computers and of electro-mechanical computers.

The foundations of a production of electronic computing equipment were laid in the 1967—1970 period, the setting up of a network of computation centres and of a system for the training of specialists necessary in this field has started as well as for the designing of data automatic processing systems and the elaboration of computation programmes.

It is necessary for all specialists to make efforts for an efficient use of the computation equipment and to contribute to the elaboration of applicative computation programmes for all fields of activity, ensuring the best charge of the computing capacities installed in economy.

In spite of the progress obtained, the social-economic informational system and its endowment with computation and data processing means are not at the level of the present and future requirements of development of the national eco-

nomy, of the exigences for the qualitative improvement of economic and social activity.

The social-economic informational system does not sufficiently ensure the data necessary for a multilateral knowledge of the economic phenomena; the records are still voluminous and unvaried as regards content; many parallelisms are manifested in the preparation and transmission of data. At the same time, certain indices used in planning and statistics do not adequately reflect the efforts of the economic units, the results and efficiency of their activity. Although some steps forward were made in the introduction of computation equipment, in our country there is still a serious lagging behind in this domain.

In view of the intensification of the process of introduction of modern management and organization methods and technics, the Executive Committee of the Central Committee of the Romanian Communist Party has adopted „The Programme for the Improvement of the Social-Economic Informational System, for the Introduction of Management Systems with Data Automatic Processing Means and for the Endowment of the National Economy with Computation Technics in the 1971—1980 Period". The main objective of this programme is the modernization of management activity in enterprises, industrial centrals and other economic units as well as in ministries and central synthesis organs through the gradual introduction of management systems with data automatic processing means; the programme pursues the gradual achievement of data automatic processing systems in economic units, on branches and functions, on the scale of economy and their subsequent integration into a unitary national data automatic processing system.

For the improvement of the social-economic informational system, the introduction of management systems with data automatic processing means and for the endowment of the national economy with computation technics in the 1971—1980 period, the Central Committee of the Romanian Communist Party decides the following:

I. BASIC ORIENTATIONS ON THE INTRODUCTION OF MANAGEMENT SYSTEMS WITH DATA AUTOMATIC PROCESSING MEANS

1. *The management systems with data automatic processing means will be introduced with priority in enterprises and industrial centrals, particular attention being granted to the management of production, namely the preparation of fabrication; the programming, launching and efficient supervision of production; the administration of the stocks of raw materials, materials and fuel; supply and sale; the optimization of investments, transports, use of production capacities, labour force and of the economic-financial results.*

2. *Measures will be taken for the rationalization of records and for the elimination of parallelisms in collecting information, for the establishment of informational flows, taking into consideration the competence and responsibilities of the decision organs at various organizational levels and the necessity for blending the unitary management of economic and social activity with the functional autonomy of the socialist units.*

3. *Particular attention will be given to the improvement of the system of social-economic indices for the latter to have a unitary content and to charac-*

terize objectively and manysidedly the processes taking place in the national economy and in social life.

4. *The concentration of electronic computing capacity in powerful centres will be pursued, to which an ever bigger number of units equipped with adequate means for the collection, preparation and transmission of data will be connected; all the counties of the country will be gradually supplied with computing and data transmitting capacities, in keeping with their needs and pursuing the efficient use of the equipment.*

5. *The management systems with data automatic processing means will be designed and produced according to a unitary conception.*

Systems of the following type will be achieved for the needs of information and management at the level of economic units, branches, territorial-administrative units and of the national economy:

— functional systems at the level of economy: the system of the planning of the national economy, the system of technical-material supply, the statistical book-keeping system, the financial-banking system, the system of scientific, technical and economic documentation;

— functional systems for the efficient management of certain activities: the electric energy system, the transport system, the system of foreign trade and of international economic co-operation, the system of home trade and of services to the population, etc.;

— management systems on economic branches which will comprise collecting, processing and supply of data and information necessary for the efficient management of the activity in the respective branch;

— systems for territorial management, having as a sphere the collecting, processing and supply of data and information necessary for the efficient management of the economy of the counties and for the elaboration of proposals on their future development;

— special functional systems having as a sphere problems concerning the activity of the party organs and organizations, of public organizations and of special sectors;

— systems for the efficient management of the activity of economic units.

6. *To ensure the necessary conditions for introducing in economy management systems with data automatic processing means, measures will be taken as regards:*

a) *the concentration of the keeping of records, of the existing computation means and of the specialists working in this field;*

b) *the rationalization of the informational flows, the unification and typification of certain documents, the improvement of the content of indices, the elaboration of catalogues and classifiers, etc.;*

c) *the elaboration of models for social-economic processes and of programmes for their utilization on electronic computers;*

d) *the training of specialists by improving and extending the existing forms of education and by organizing other forms of training; the inclusion in the programmes of recycling of the managerial staff of notions necessary in the field of informatics;*

e) *the ensurance in due time of the projects of management systems with data automatic processing means, of general programmes and of corresponding applications;*

f) *the intensive endowment of the national economy with computing equipment, installations and supplementary materials both by developing the home production and by intensifying co-operation with other countries in this domain*;

g) *the ensurance of the compatibility of the computing equipment and programmes and the elaboration of standards in these domains*;

h) *the adaptation of the telecommunication network to the necessities of the future inter-connection of computers*;

i) *the development of activity for the introduction of electronic computers in the management of technological processes, with priority in the chemical, electric power, metallurgical and building materials industries*;

j) *the creation of an adequate organizational framework for the introduction of management systems with data automatic processing means; the establishment of the concrete responsibilities incumbent on various organs and units involved in this action.*

II. STAGES IN THE INTRODUCTION OF MANAGEMENT SYSTEMS WITH DATA AUTOMATIC PROCESSING MEANS

A. *THE 1971—1975 PERIOD*

The preparation of economy for the wide-scale introduction of management systems with data automatic processig means is going to be ensured at this stage. Measures will be taken for the rationalization and adaptation of the keeping of records for the automatic processing of data, for the training of personell and for the setting up of a number of computation centres at big enterprises, industrial centrals and in some of the counties which have better conditions for the use of computing capacities; management systems with data automatic processing means will be introduced in enterprises and centrals of the metallurgical, electric power, machine-building, chemical, light, food and timber industries, in transport, agriculture, home trade and services to the population, etc.

The elaboration of projects of general functional and of efficient management systems is also envisaged for this stage; the organization of the central data bank will start and the first tele-processing connections will be achieved.

In view of the fulfilment of the objectives envisaged for the 1971—1975 period, the following are established:

1. The Improvement of the Social-Economic Informational System

a) *In view of the proper organization of management and planning, measures will be taken for the improvement of the classification of the branches of the national economy; the elaboration of the catalogue of the industrial, agricultural, construction and transport state socialist units, of the catalogue of professions and trades in the national economy and of other lists and classifications necessary for various fields of activity.*

The Council of Ministers and the Economic Council together with the other ministries and central organs are in charge of the carrying out of these mea-

sures and of the unitary system of social-economic classifications and catalogues.

b) *The system of social-economic indices will be improved in view of multilateral and objective characterization of the social-economic phenomena and processes and of the fulfilment of the plan; the ensurance of a methodological and content unity of the plan, statistical and financial indices and the codification of the entire indices system will also be pursued.*

The Council of Ministers and the Economic Council together with the other ministries and central organs, the executive committees of the county people's councils and of the Bucharest municipality are in charge of the improvement of the social-economic indices system.

c) *Measures will continue to be taken for the rationalization of records and for the creation of a unitary recording system in the units of the national economy. This action will comprise all the activities and forms of records in enterprises, industrial centrals and in other economic units, taking the following objectives into consideration:*

— the designing of records on the basis of unitary principles;

— the ensurance of information necessary for the substantiation of decisions within the economic units;

— the elimination of parallelisms;

— the gradual adaptation of the records to the requirements of data processing with modern computing means.

The Council of Ministers, the Economic Council, the ministries and the other central organs, the enterprises and centrals, the executive committees of the county people's councils and of the Bucharest municipality are in charge of the rationalization of records.

Projects for the rationalization of recording will continue to be drawn up and experimented in 1972, going to be extended in 1973. The rationalized recording system is to be applied in the entire economy as from 1974.

2. The Endowment of the Economy with Computation Technics

Over 80 computation centres are to function by 1975. Approximately 60 per cent of the installed computation capacity will serve the enterprises and centrals.

A volume of investments of over five thousand million lei is envisaged to be allocated in the 1971—1975 period for the implementation of the programme on the introduction of management systems with data automatic processing means and for the endowment of the economy with computation technics.

Taking into account the growing need of economy for computation technics, the Ministry of the Machine-Building Industry together with the State Planning Committee and the National Council for Science and Technology will draw up a long-term programme for a rapid growth of the home production of computing equipment. This programme will have to pursue the intensification of the rhythm of integration of our own production of central units and external memory units; the diversification of the manufacturing of peripheric and auxiliary equipment; the production of electronic computers for the management of technological processes; the ensurance of equipment for the development of the

national telecommunication network in keeping with the needs of computation technics; the development of co-operation abroad in the field of computing technics, especially with the Socialist countries.

The whole action of equipment of the economy with computing technics will be co-ordinated by the National Council for Science and Technology.

3. The Designing and Introduction of Management Systems with Data Automatic Processing Means

In the 1971—1975 period, work will go on on the designing and introduction of management systems with data automatic processing means at about 400 enteprises and industrial centrals.

Standard projects of management systems with data automatic processing means will be worked out, ensuring the compatibility between them and programme packages will be used for the efficient management of production and the national library of programmes will be organized.

The necessary funds for the designing and application of the management systems with data automatic processing means will be ensured by the beneficiary organizations and will be envisaged in the annual plans.

The fulfilment of the programme for the designing and introduction of management systems with data automatic processing means is incumbent on the Central Institute for Management Systems with Automation Means, on the department research and designing institutes, on the computation centres and on the higher educational institutes together with the beneficiaries.

The general designer together with the beneficiary organization are in charge of the designing and introduction of the management systems with data automatic processing means. The beneficiaries are also in charge of the application of the elaborated projects and of the efficient use of the designed systems receiving technical assistance from the general designer.

The National Council for Science and Technology and the Central Institute for Management Systems with Automation Means co-ordinate the entire activity of designing and introduction of management systems with data automatic processing means.

The ministries, the central organs and the executive committees of the county people's councils will take measures so as to create conditions in the subordinate units for the introduction of management systems and their efficient use.

4. Research in the Use of Computing Technics

The activity of research will be carried on, with priority, for the needs of the enterprises, centrals and other economic units.

Particular attention will be granted to the elaboration of mathematical models for the optimization of production, to the stocks of raw materials and materials, to investments, transport and to other economic activities as well as for the working out of long-term social-economic prognoses.

The studies on the achievement of the management systems with data automatic processing means will be oriented towards the following directions: methods

of analysis, designing and working out of integrate systems, including systems in which automations of techological processes with the aid of computers are also taking place, basic and applicative programmes, programme languages; the setting up and utilization of the national programme library.

Studies on new data automatic processing methods and technics will be made especially in the following directions: experiments of new computing equipment; teleprocessing systems, data banks, etc.

The National Council for Science and Technology together with the Ministry of the Machine-Building Industry, the Ministry of Education, the other ministries and central synthesis organs will draw up a programme of measures for intensifying studies in the field of the use of computing technics.

5. The Training of Personell

Over 20,000 specialists will be trained in the 1971—1975 period, for the use of electronic computers. Over 8 000 programmers and operators will be trained, in the same period, for the equipment of medium mechanization.

The training and improvement of the specialized staff will be ensured for the personell with higher studies in faculties of speciality, through post-university and short-term courses and for the staff with secondary studies in lyceums for data automatic processing, through short-term courses.

The short-term courses will be organized by the National Council for Science and Technology — the Central Institute for Management Systems with Automation Means in collaboration with the "Stefan Gheorghiu" Academy and the territorial electronic computation centres. The ministries and the other central organs will also organize short-term courses.

The Ministry of Education will take measures for the introduction of notions of data automatic processing in lyceums and faculties according to curricula to be established in collaboration with the National Council for Science and Technology.

For the practical training of the personell to be employed in this field, the computation centres will put the necessary computation capacity at the disposal of education.

The National Council for Science and Technology in collaboration with the Ministry of Education and the ministries concerned will take measures for the promotion of literature of speciality on the use of computing technics.

The State Committee of the Romanian Radio and Television will transmit lesson-programmes for the wide popularization among the masses of knowledge of data automatic processing and the press will unfold a systematic activity for spreading knowledge in this domain.

The necessary funds for education and other training activities envisaged in the programmes as well as the investments for ensuring the building of the data automatic processing training centres and lyceums will be provided for through the annual plans of the National Council for Science and Technology.

B. *THE 1976—1980 PERIOD*

In this period, the rhythm of the equipment with electronic computers will have to increase considerably, in keeping with the needs of economy; the priority equipment of the industrial centrals and enterprises will be further ensured and territorial electronic computation centres will be set up in all the counties of the country.

On this basis, the introduction of production management systems with data automatic processing means will be sped up, the systems begun in the 1971—1975 five-year plan period will develop and they will pass on to their integration.

New enterprises will introduce such systems so that by 1980 about 1 000 economic units will use computation technics in the management of production. In the industrial branches with a continuous flux and, first and foremost, in metallurgy and chemistry, management systems with electronic computers will be achieved both for economic activity and technological processes.

The putting into commission of general functional systems and of efficient management systems in certain branches and activities is envisaged for the 1976—1980 period; the data transmission network will be completed with special telecommunication lines for inter-connecting the management systems with data automatic processing means and data banks will develop.

In this stage, conditions will be ensured for the gradual achievement after 1980 of the national management system with data automatic processing means.

III. ORGANIZATIONAL MEASURES

For the implementation of the programme on the improvement of the social-economic informational system and the introduction of management systems with data automatic processing means, the following organizational measures are established:

1. The National Council for Science and Technology is in charge of the introduction of data automatic processing equipment in economy and controls its utilization as well as the achievement and introduction of management systems with data automatic processing means.

2. The Central Institute for Management Systems with Automation Means subordinated to the National Council for Science and Technology is in charge of the research, designing and introduction of management systems with data automatic processing means, the ensurance of compatibility among the systems and the co-ordination of the territorial electronic computation centres.

3. The responsibility for the carrying out of the provisions of the present decision on the rationalization of recording, the improvement of informational flows and the ensurance of the proper functioning of the entire economic-social informational system is incumbent on the Council of Ministers and the Economic Council, on the other ministries and central organs, on the enterprises and centrals and on the executive committees of the county people's councils and of the Bucharest municipality.

4. The government Commission for the rationalization of the recording system in the socialist units will take measures for the complete fulfilment, at the established terms, of the provisions included in the programme approved of by the Council of Ministers on the rationalization and simplification of the recording system.

5. Departments will be organized as part of the ministries and the other central organs, the county people's councils, the industrial centrals and enterprises for the improvement of the economic informational system, for the simplification and rationalization of records, the improvement of the use of the existing computing equipment and the introduction of management systems with data automatic processing means.

6. The Ministry of Education and the National Council for Science and Technology together with the other ministries, central organs and county people's councils are in charge of the training of the staff necessary for the introduction of management systems with data automatic processing means.

7. The computation centres are organized and function, as a rule, according to the principle of economic administration, the expenses being covered from the incomes obtained out of the services done to the enterprises, centrals and other units.

8. As from 1974, all projects on the setting up of economic units (factories, plants, groups of enterprises, etc.) will compulsorily include also projects on the organization of the respective managament systems with data automatic processing means.

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The entire activity for the rationalization of recording, for the preparation of conditions in view of the passing on to the introduction of management systems with data automatic processing means and for the efficient use of computing technics will unfold under the guidance and control of the party organs and organizations which have the duty to mobilize the leading and specialized staff and the masses of working people for the carrying out, in good conditions, of the objectives of this programme.

Taking into consideration the complex problems raised by the improvement of the social-economic informational system, by the introduction of management systems with data automatic processing means and by the endowment of the national economy with computing technics, the Council of Ministers and the Economic Council will half-yearly report to the Executive Committee of the Central Committee of the Romanian Communist Party on the fulfilment of the tasks envisaged in the present decision.

The press, the publications of speciality and the Radio and Television will present materials on the content and progress of the carrying out of the present Decision of the Central Committee of the Romanian Communist Party.