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ACTUAL PRIORITIES OF MODERN SCIENCE, EDUCATION AND PRACTICE

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APPLYING OF THE GLOBAL STANDARD OF TRACEABILITY SYSTEM GS1 BY THE OPERATORS OF THE MARKET'S OF PRODUCTION OF FOOD PRODUCTS

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The food market operator is obliged to implement a traceability system to control production processes, which is also an integral part of the proper functioning of the food safety management system.

There is no universal traceability system, because each market operator has its own characteristics and procedures, but it provides completeness and compliance with regulatory requirements of the information needed to trace the entire technological cycle of production.

The traceability system can be used at different stages of food production to achieve the following objectives and goals:

- ensuring rapid recall or removal of non-compliant products;
- ensuring compliance with regulatory requirements, specifications and requirements of trading partners or traceability partners;
- effective logistics management to provide implementers and consumers with accurate traceability information;
- protection of reputation among consumers;
- confirmation of the presence of certain characteristics or properties of the subject of trade;
- ensuring transparency of technological processes of production and sale of products;
- identification of counterfeit products [1].

The concept of a traceability system has three basic elements:

- 1) traceability of the supplier of raw materials (external traceability, a step back);
- 2) traceability of production processes (internal traceability);
- 3) traceability of the consumer (external traceability, a step forward) [2].

In fig. 1. the scheme of the organization of traceability at the enterprise is resulted.

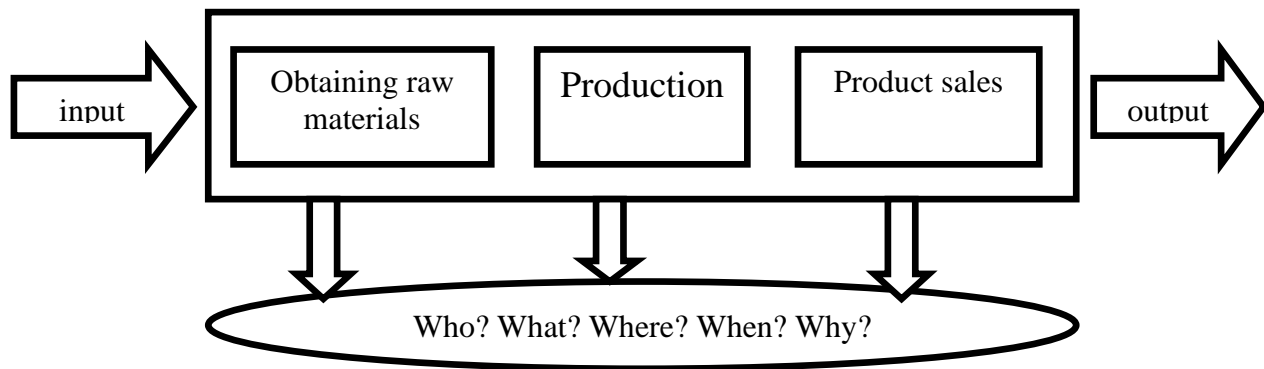


Figure 1. The scheme of organization of traceability at the enterprise

Who (which parties are involved?): identified entities that process primary products and supply them for further food production.

What (what raw materials can be traced and what should be taken into account?): identification coding is an important element. Identification coding should be unique to a particular product and short enough to contain enough information to link the product to documented information. For example, identification numbers, labels, markings, labeling, coding, certificates.

Where (where do the production processes take place?): the specific warehouse, production line, shop, transport are indicated.

When (when did the process involve a particular product?): the date, time and time zone when the production process took place reflect the time scale of the product movement.

Why (why was the product in this place at the time?): a description of the complete technological process of food production.

Based on the current ISO 9000 and ISO 22000 series standards, the GS1 International Association has developed the GS1 Global Traceability Standard, which details the traceability process and provides a step-by-step model for developing this system that allows the market operator to easily develop a traceability system. The methodology is intended for use by various market operators. In fig. 2 shows a step-by-step methodology for developing a traceability system according to the GS1 Global Traceability Standard [3].

The GS1 Global Traceability Standard includes:

- identification of participants and trading partners, trade items and events;
- marking and methods of labeling / fixing tags on goods;
- identification of types and types of data to be collected and stored;
- determination of methods and minimum requirements for keeping records and archival documents, in particular for their storage.

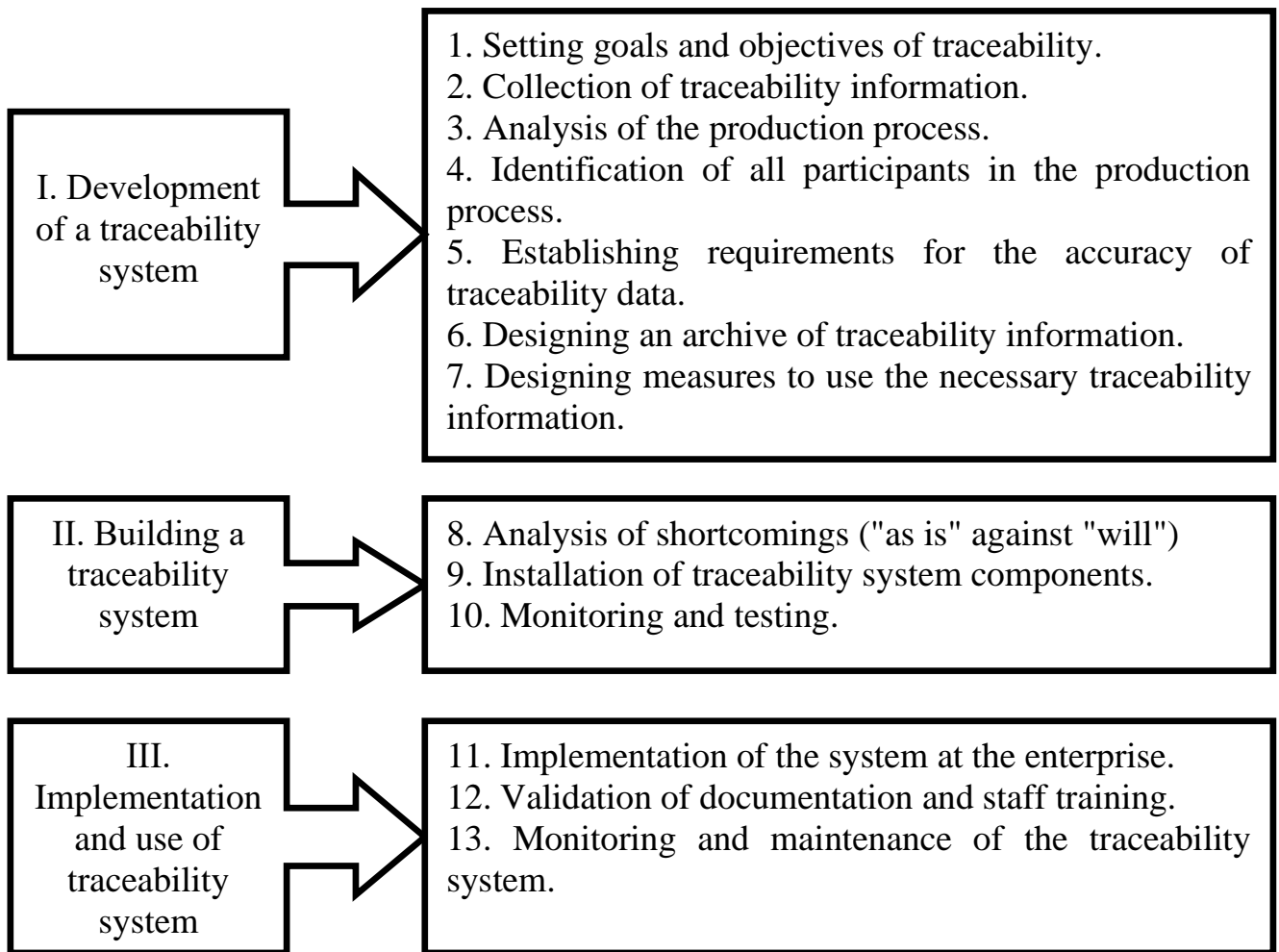


Figure 2. Methodology for developing a traceability system

The GS1 Global Traceability Standard is one of the best options for developing a comprehensive traceability system in food production.

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Actual priorities of modern science, education and practice

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