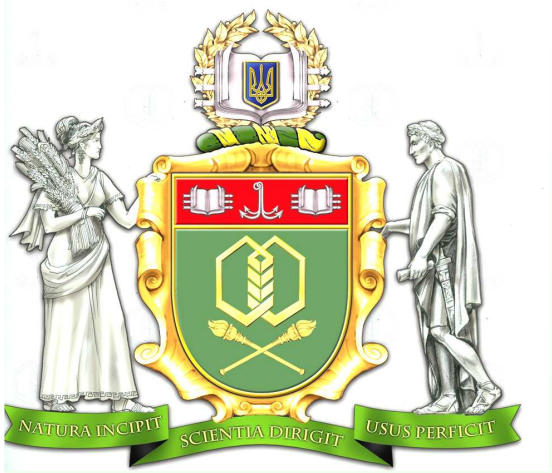
ODESSA NATIONAL ACADEMY OF FOOD TECHNOLOGIES

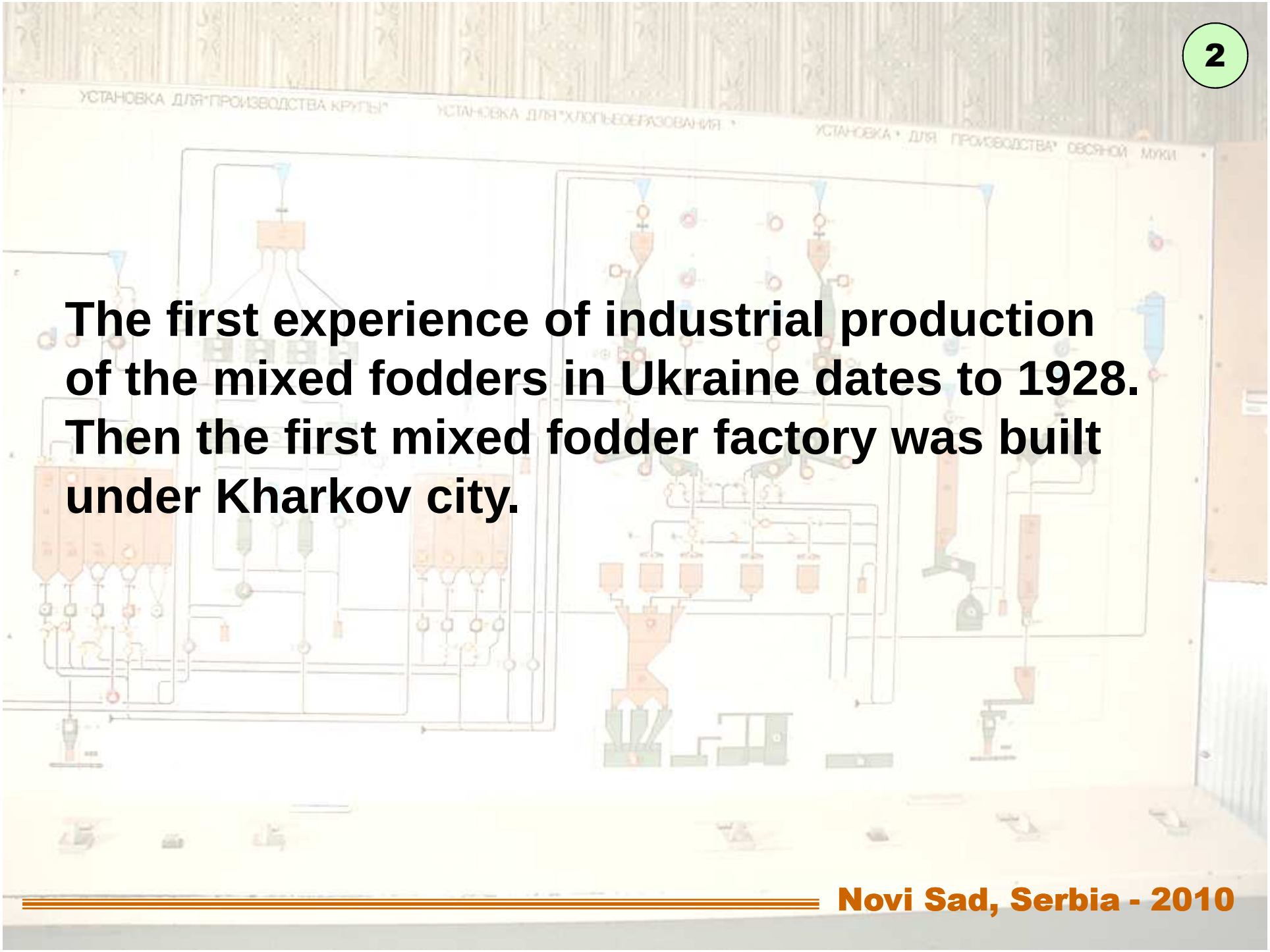


1902

RESEARCHES AND DEVELOPMENT IN THE FIELD OF TECHNOLOGIES OF PRODUCTION OF THE MIXED FODDERS IN UKRAINE

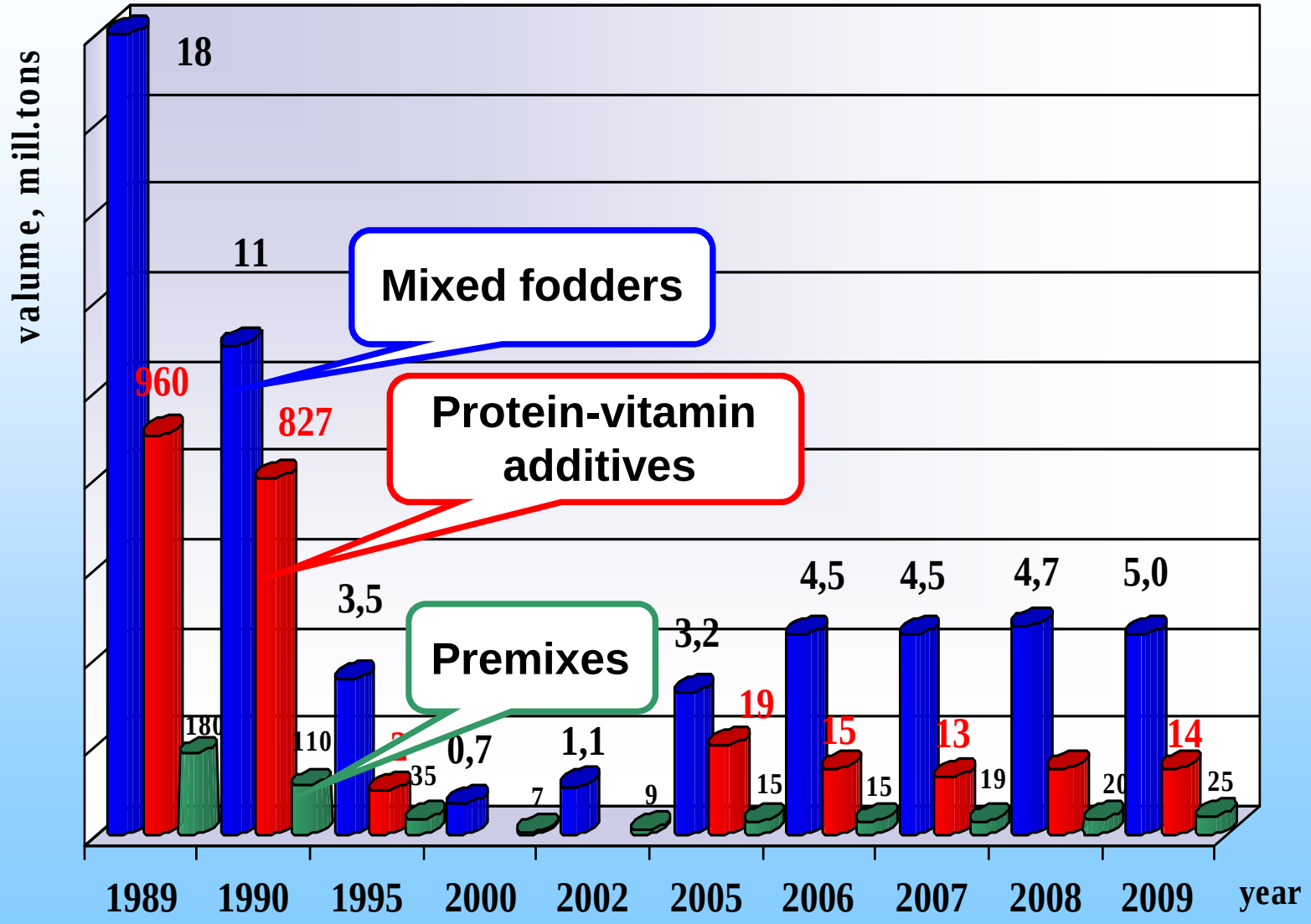
Bogdan Iegorov
Doctor of Science, prof.,
Rector

Novi Sad, Serbia - 2010



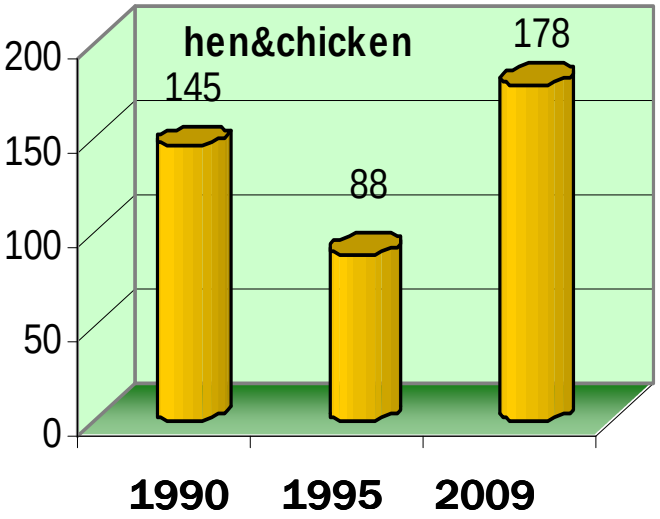
The first experience of industrial production of the mixed fodders in Ukraine dates to 1928. Then the first mixed fodder factory was built under Kharkov city.

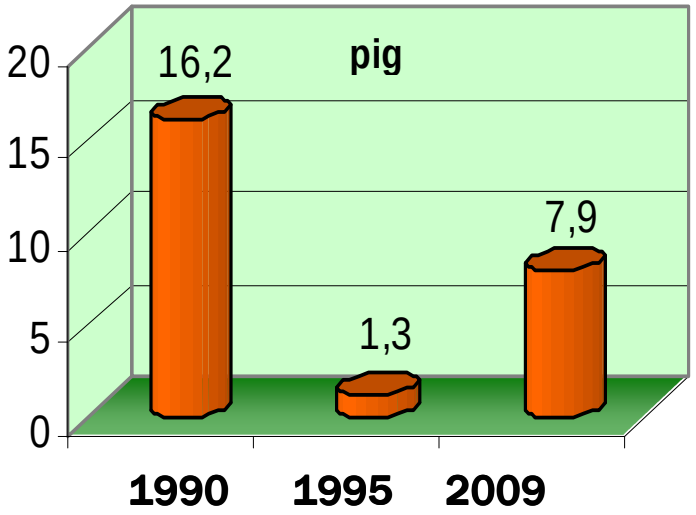
Mixed fodders production in Ukraine, million tons

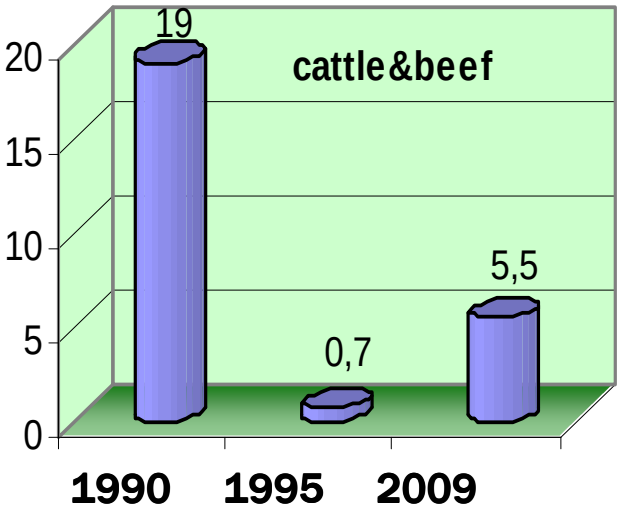


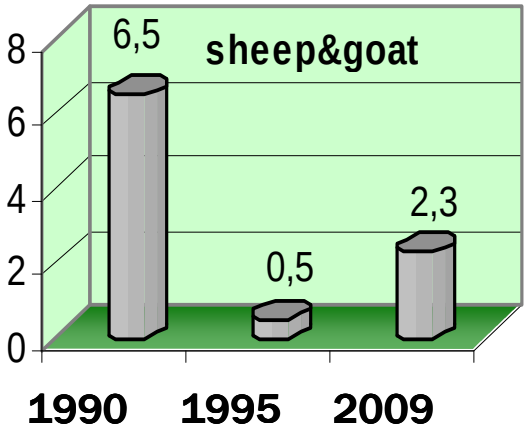
The changing of the livestock in Ukraine

(million heads)

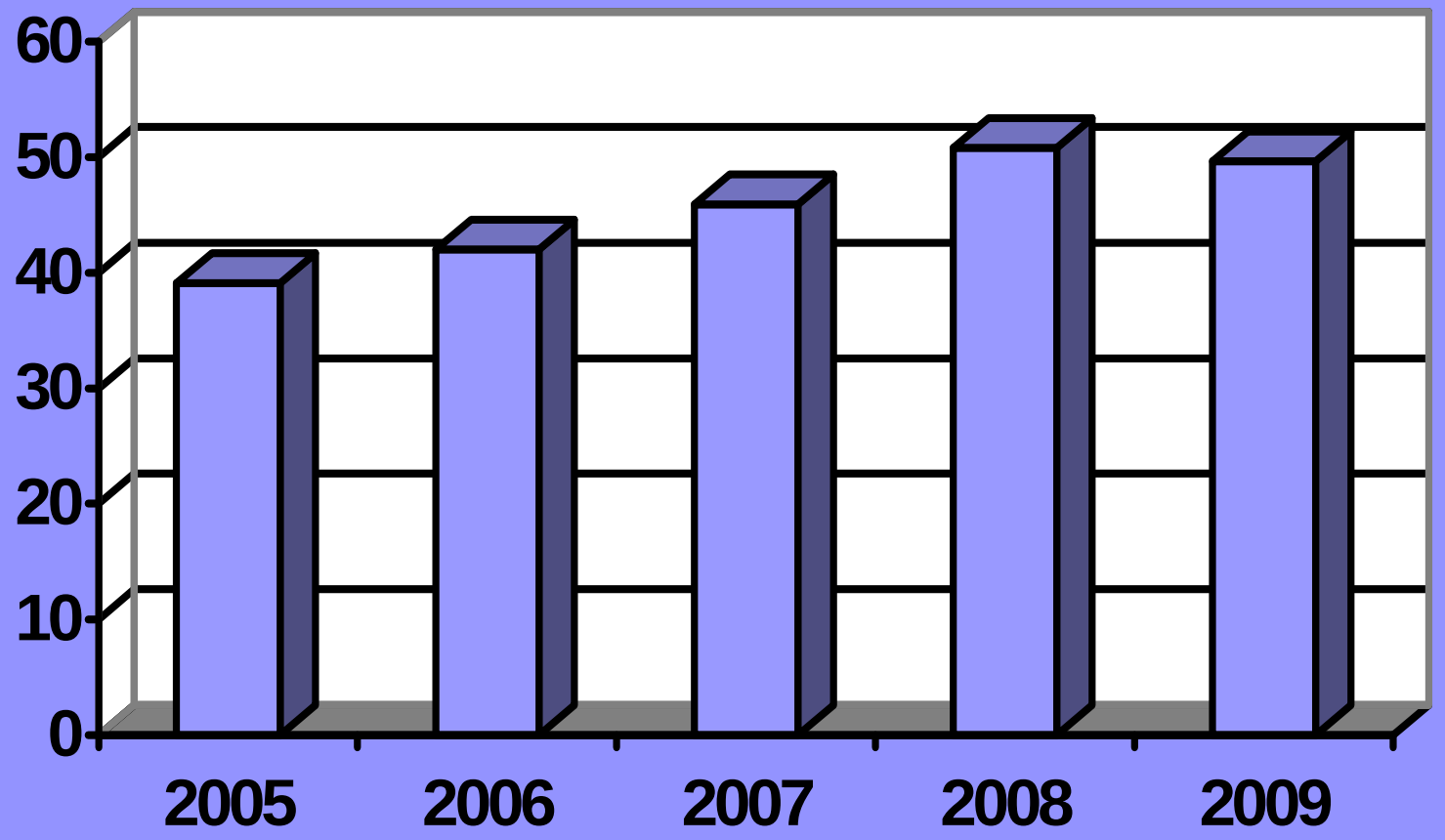




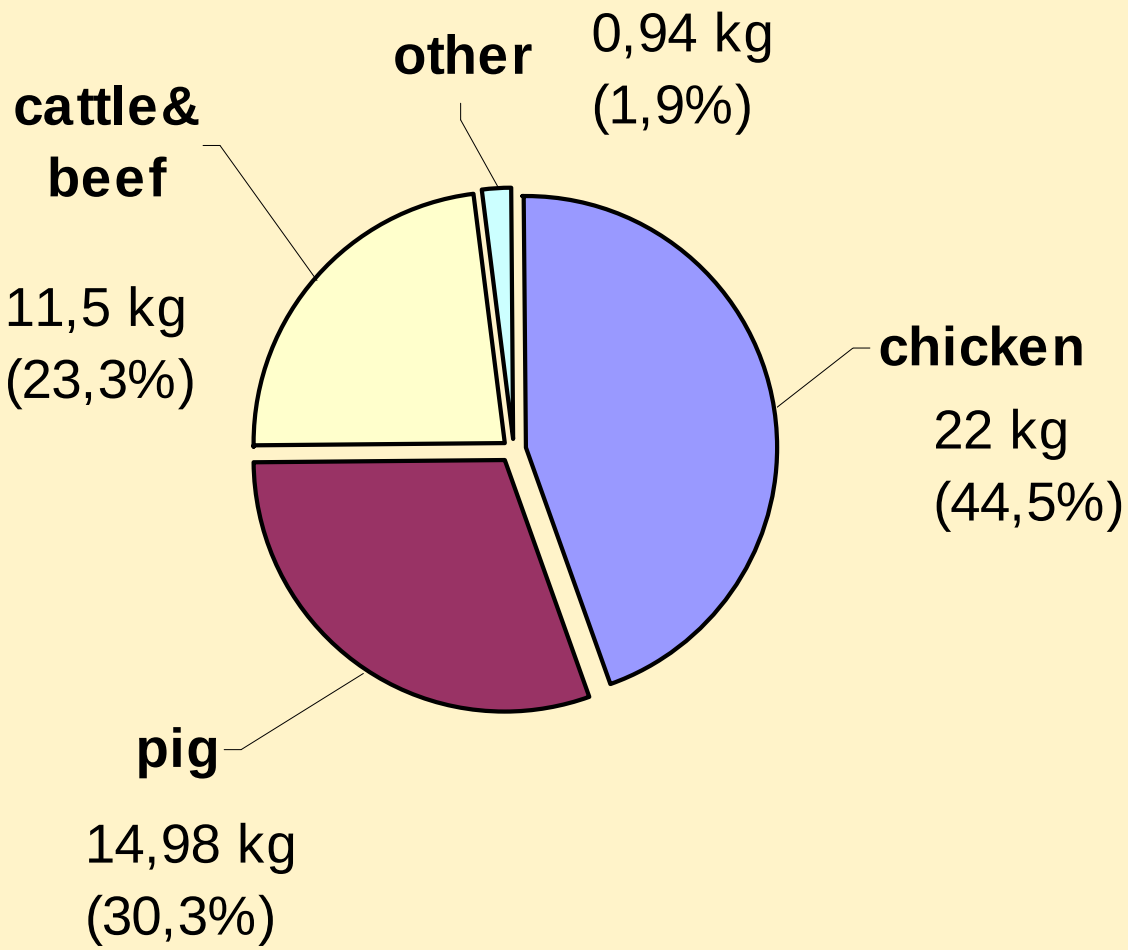




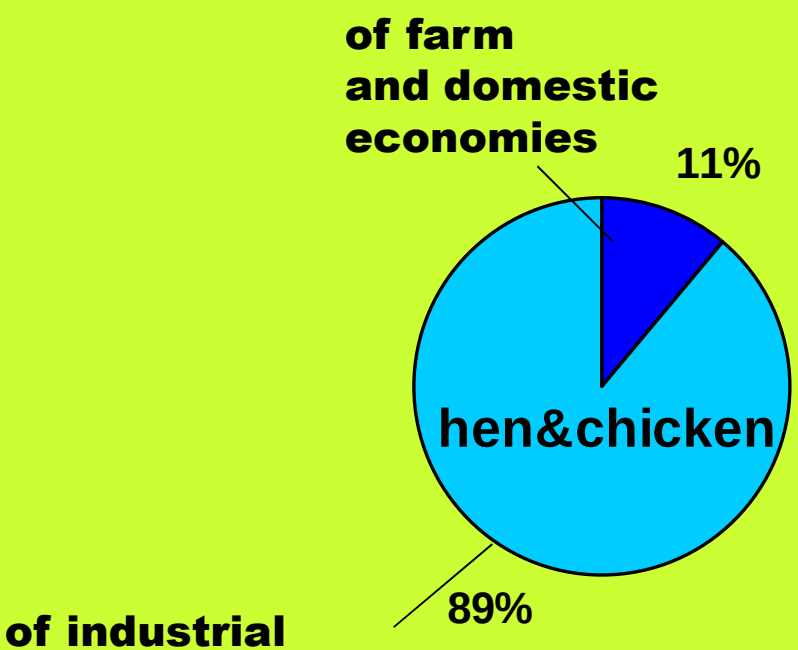
Today in Ukraine average consumption of meat has increased from 40 to 49,42 kg per 1 person per year

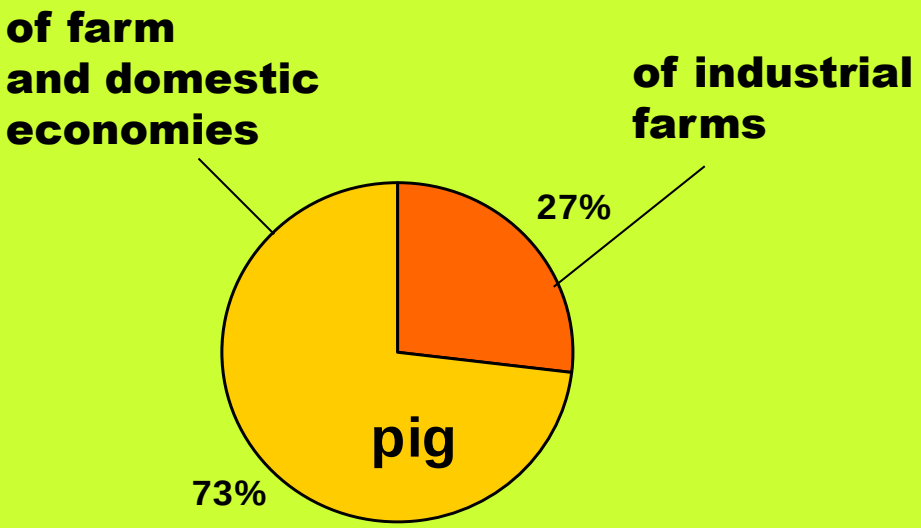


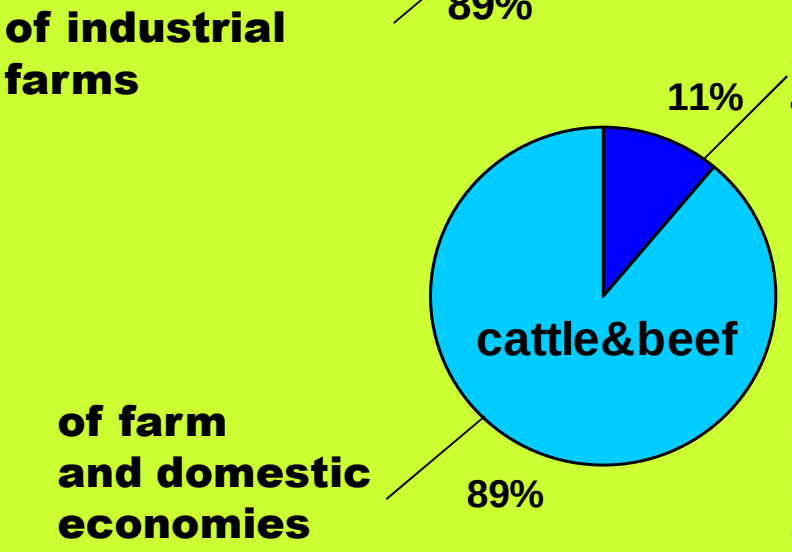
A structure of meat ration of Ukraine

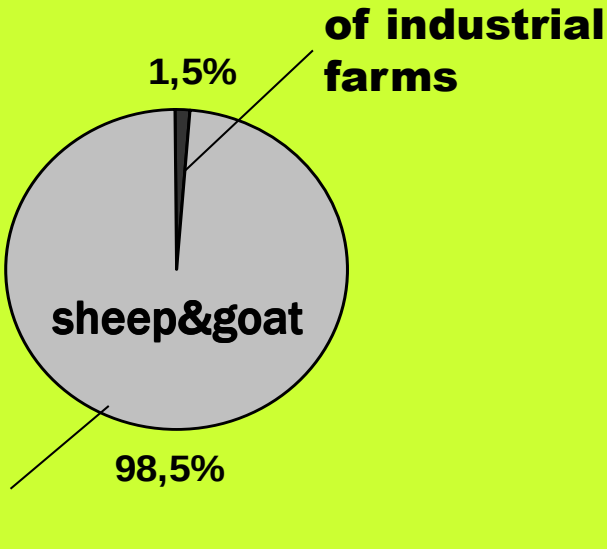


The animals are kept in the conditions:

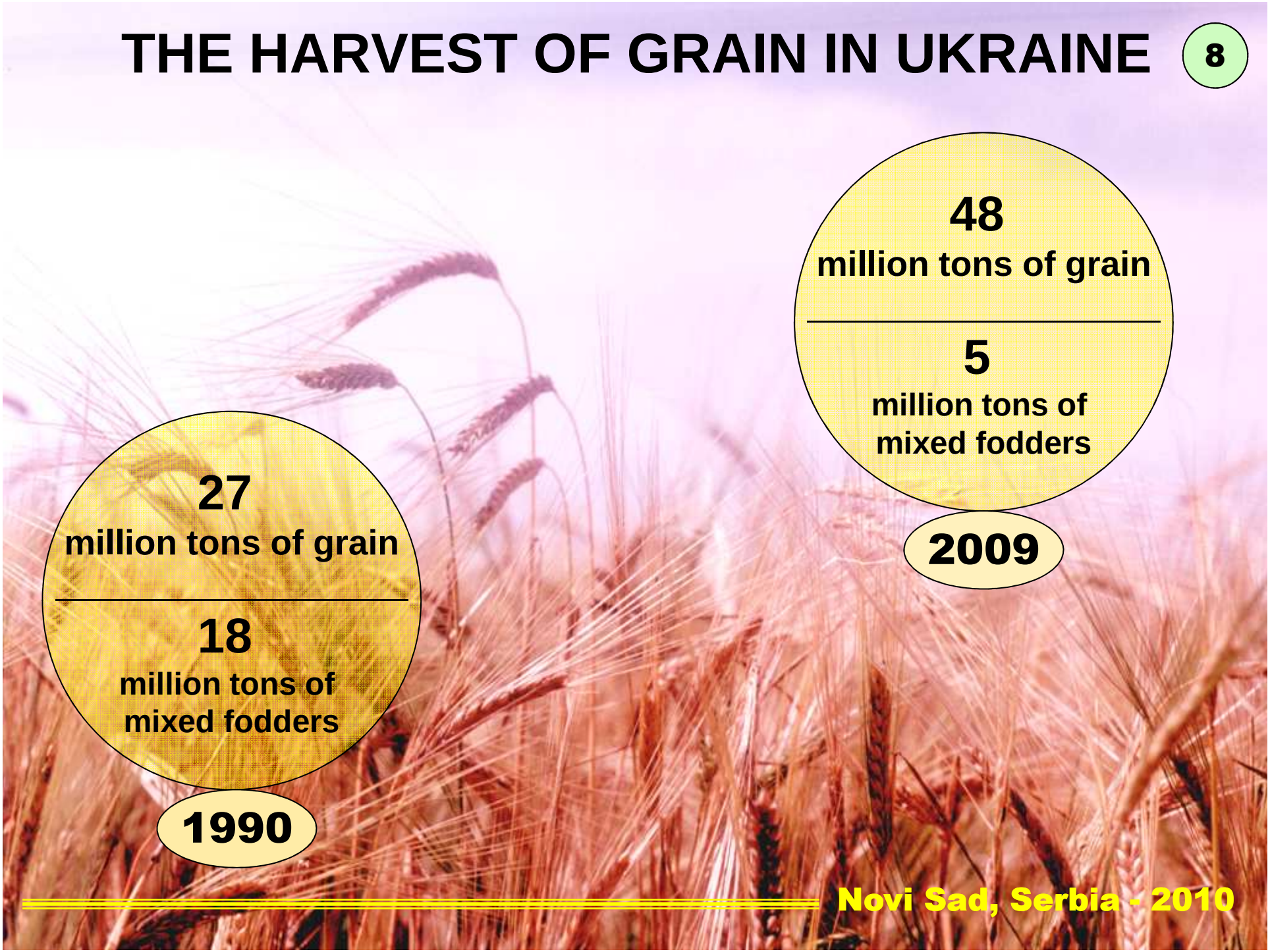








THE HARVEST OF GRAIN IN UKRAINE

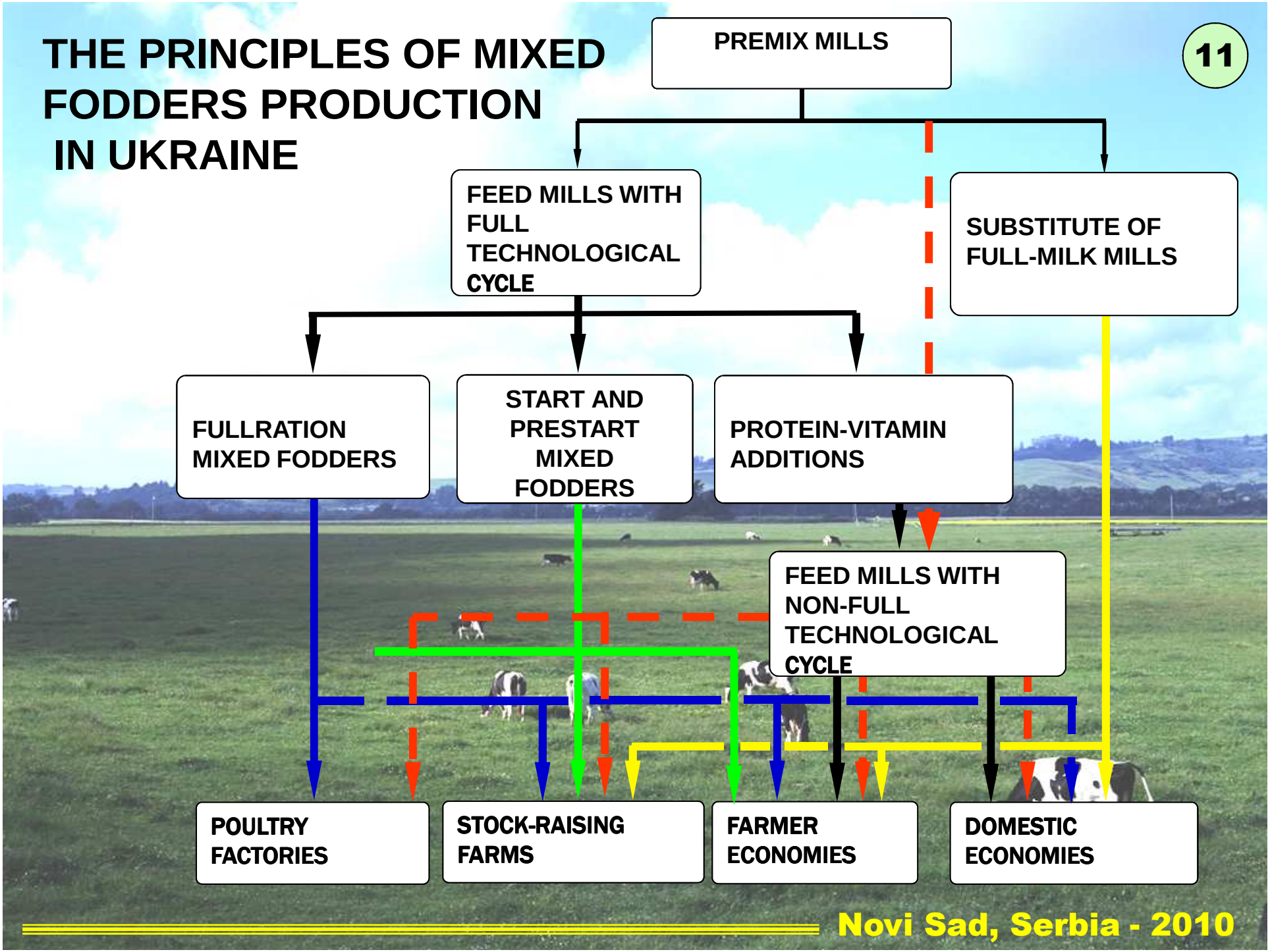


The Chair of the Mixed Fodders Technology
of Odessa National Academy of Food Technologies
has trained engineers-technologists
for mixed fodders plants since 1947.

Research institute in Ukraine:

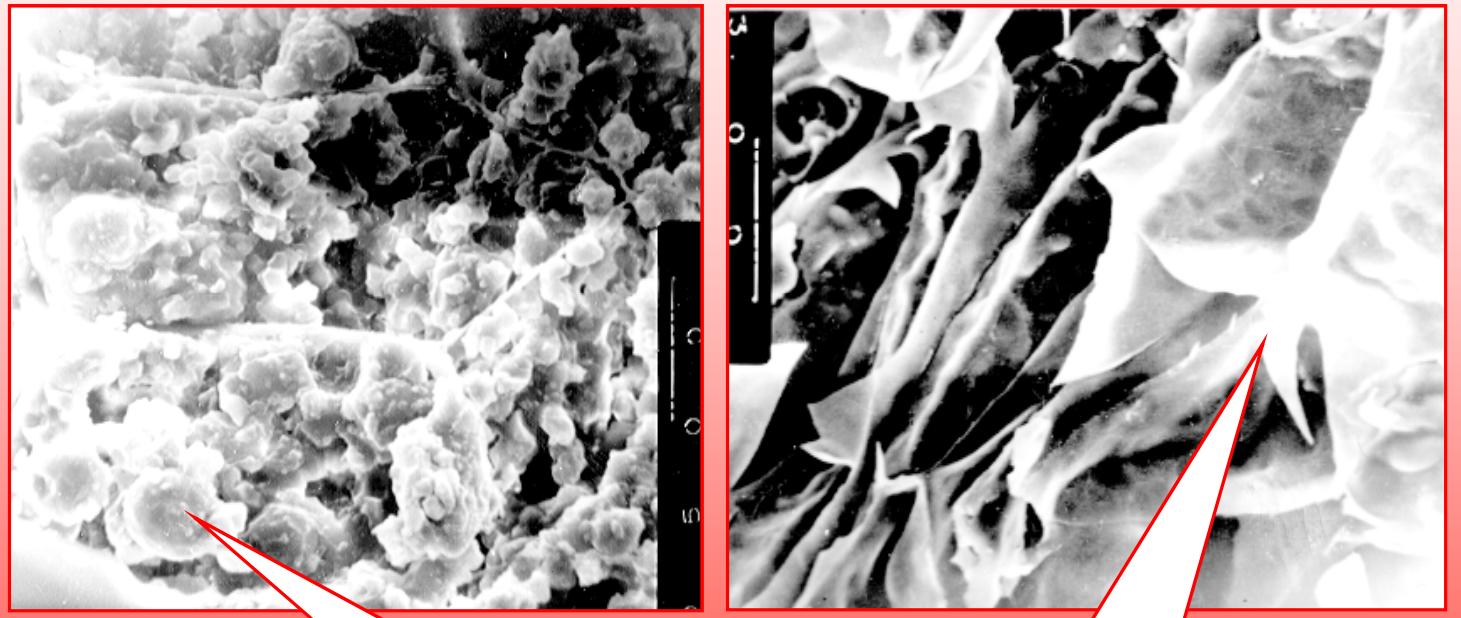
Research institute of the poultry farming
in Borki city,
Research institute of the pig breeding
in Poltava city,
Research institute of forages
in Winnitsa city,
Research institute of control
of veterinary preparations and
forage additives in Lvov city

THE PRINCIPLES OF MIXED FODDERS PRODUCTION IN UKRAINE



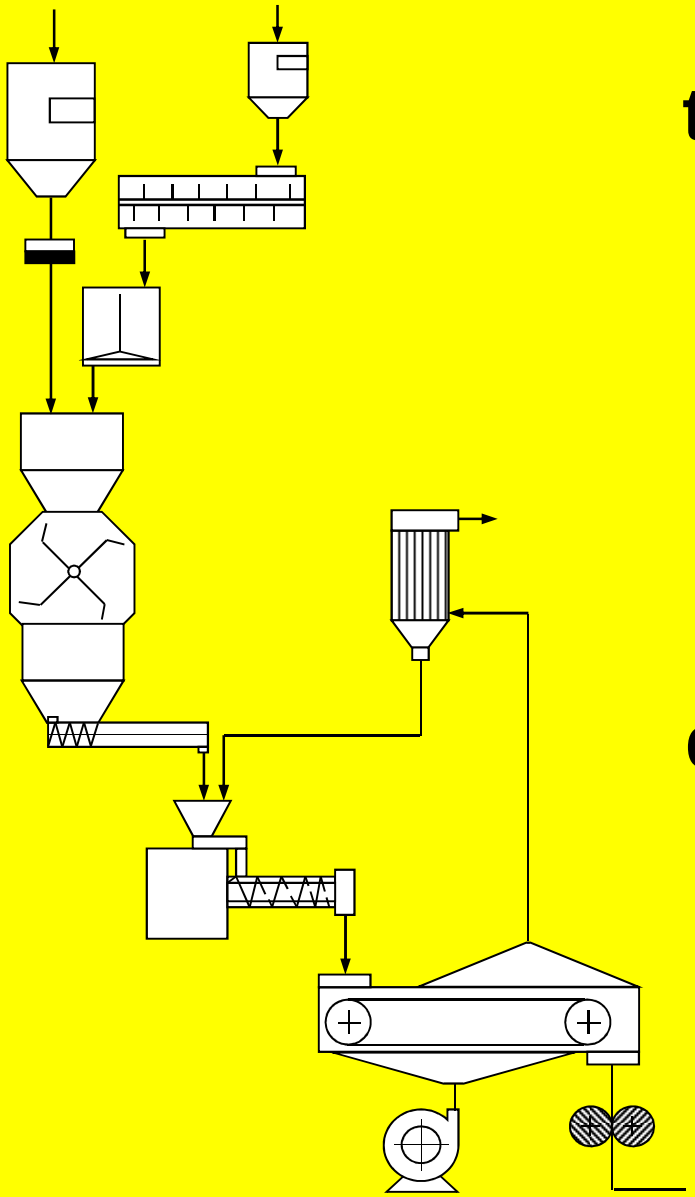
To increase the efficiency of the use of grain we have developed

the technology of treatment of grain with steam.



Whole starch grains

Broken starch grains



FOR MIXED FODDER PRODUCTION

We have developed the technologies of extruding of grain with the different components of high humidity.

The specific expenses of energy which was used on drying of these components before, go down as a result.

Even the most modern technologies often show unstable job performances. Foremost it is connected with the variety of the properties of the raw material. Therefore it is very important to provide the modes of functioning of the technological processes in such a way as to provide high stability of quality of the finished mixed fodders.

Buslenko N.P., 1973 :

$$\Delta R = R^o - R^*$$

Ro – index of efficiency (for normal conditions of the system):

$$Ro = R(\alpha_1 o, \alpha_2 o \ldots \alpha_n o; \beta_1 o, \beta_2 o \ldots \beta_m o),$$

R* – index of efficiency (where the external and internal factors influence the system):

$$R^* = R(\alpha_1^*, \alpha_2^* \ldots \alpha_n^*; \beta_1^*, \beta_2^* \ldots \beta_m^*),$$

Panfilov V.A., 1980 :

$$St = 1 - \frac{H}{H_{max}},$$

H – an entropy, which corresponds to this distributing of values of analyzed index quantity;

H_{max} – a maximum possible entropy, which corresponds to normal distribution law.

Kafarov V.V. et.c., 1985 :

$$D[X] = \sum_{i=1}^{n} p_i (X_i - m_x) ,$$

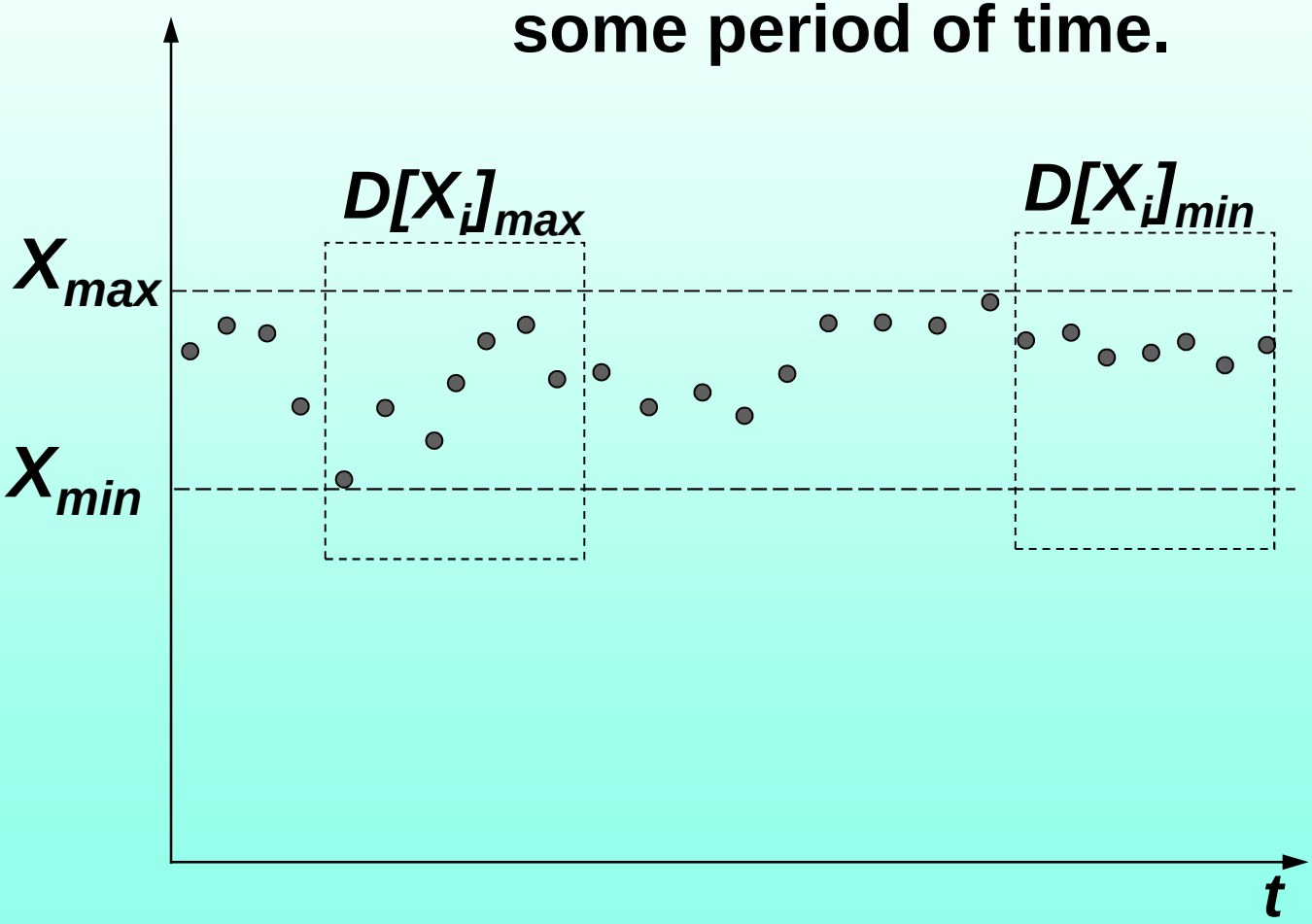
m_x – **mathematical expectation of the odd value *Xi*.**

Iegorov B.V., 2008 :

$$St = \frac{D[X_i]_{min}}{D[X_i]_{max}},$$

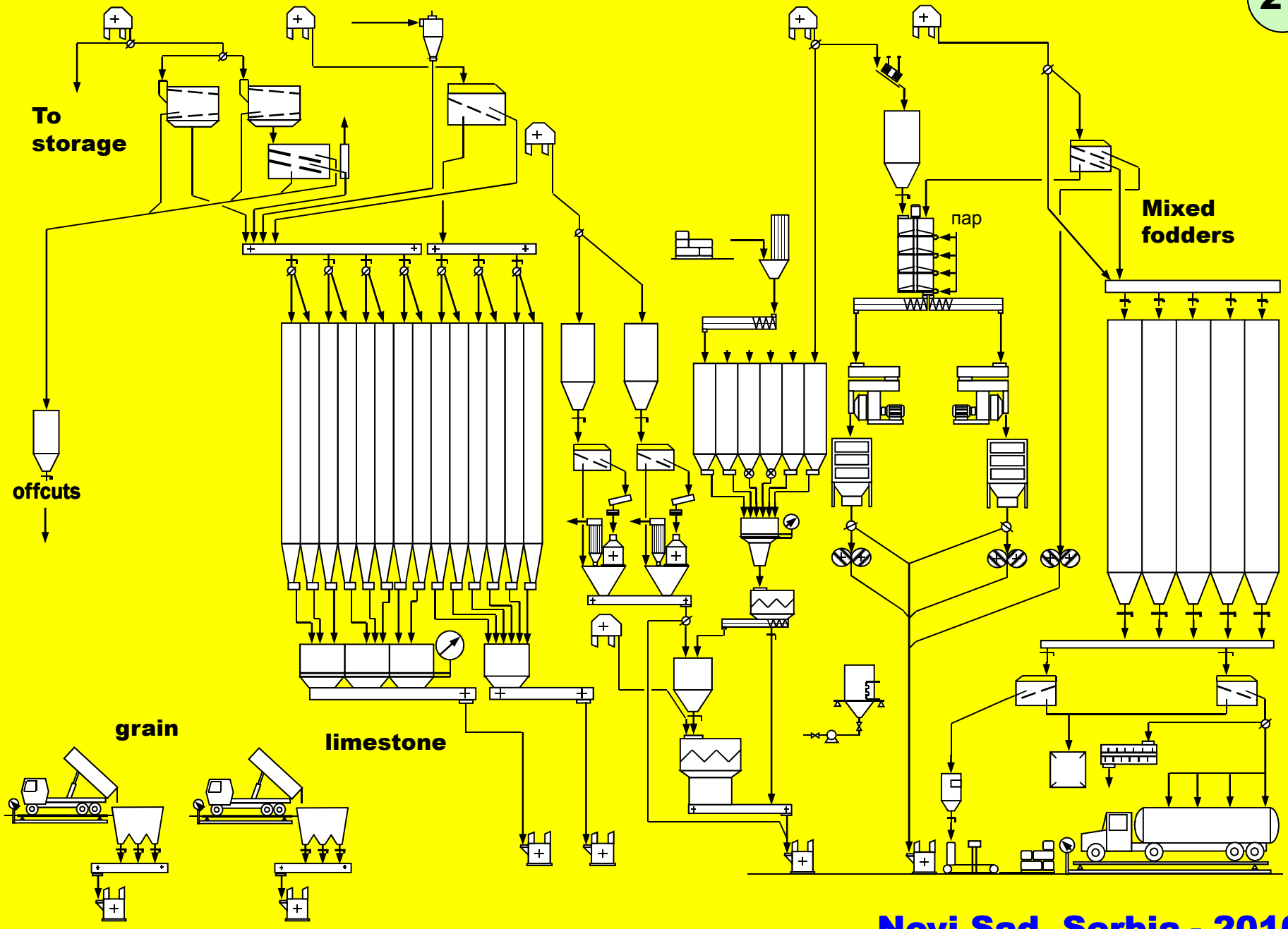
D[*Xi*] – **maximum and minimum dispersion of distributing of odd values of *Xi*, as a parameter of estimation of efficiency of technological system functioning**.

Thus, stability of functioning of the technological system in fact represents stability of distribution of probabilities of parameters of technological process or system during some period of time.



THE NEW FEEDMILL IN RAZDELNAJA, UKRAINE

THE NEW MIXED FODDER FACTORY OF FOURTH-GENERATION



Novi Sad, Serbia - 2010

Odessa National Academy of Food Technologies:
475 – doctor and candidate of sciences;
109 – graduates students;
78 – master's degrees;
225 from 10000 students

We hope that combined efforts of the Ukrainian specialists, wide study of experience of our foreign colleagues will allow us to develop quicker…

Thank you for your attention!

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