



**MINISTRY OF DEVELOPMENT OF COMMUNITIES AND TERRITORIES OF UKRAINE**



**STATE ENTERPRISE  
“STATE RESEARCH INSTITUTE OF BUILDING CONSTRUCTIONS”  
(NIISK)**

**DAMAGES TO INFRASTRUCTURE AND ECONOMIC IMPACT  
OF RUSSIAN INVASION AS OF AUGUST 1, 2022**

**IMPLEMENTATION OF REGULATION (EU) No 305/2011 OF THE EUROPEAN  
PARLIAMENT AND OF THE COUNCIL IN UKRAINE**

**UEAtc Coordination Commission  
September 28-29, 2022  
Berlin, Germany**

**Prof. Gennadiy FARENYUK**  
Director of Institute

**Anna TRYFONOVA**  
Head of Department  
of International Ties



# DAMAGES TO INFRASTRUCTURE AND ECONOMIC IMPACT OF RUSSIAN INVASION AS OF AUGUST 1, 2022



## GOT DAMAGED AND DESTROYED

**130 thousand residential  
buildings,  
direct loss is 47 bln USD**

Of them:

**115 thousand one  
family dwellings,  
direct loss is  
5.4 bln USD**

**15 thousand multi-  
family dwellings,  
direct loss is  
42.3 bln USD**

**19 airports,  
direct loss is 2 bln USD**



High-rise residential building hit by  
missile in Kyiv  
at Lobanovskogo ave, 6a



## GOT DAMAGED AND DESTROYED

**1453 educational institutions,  
direct loss is 3.1 bln USD**

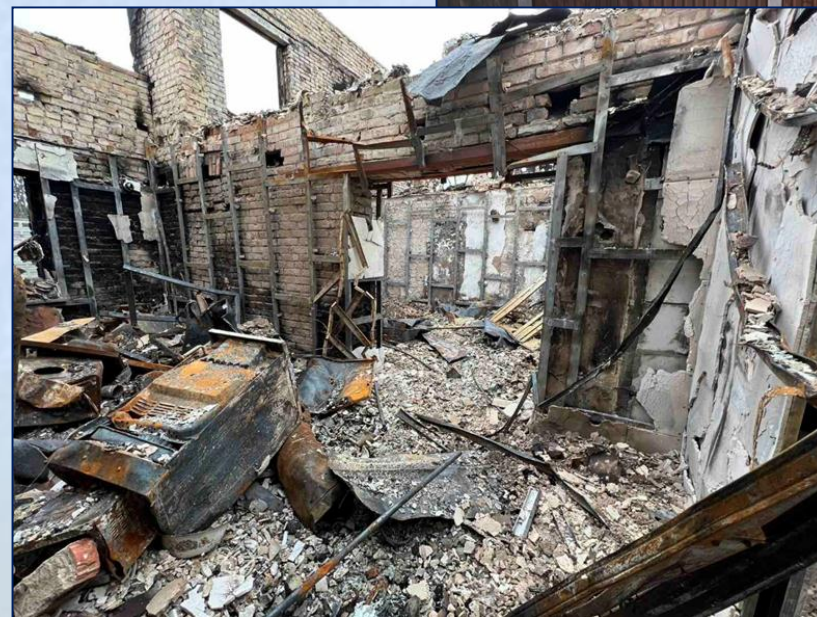
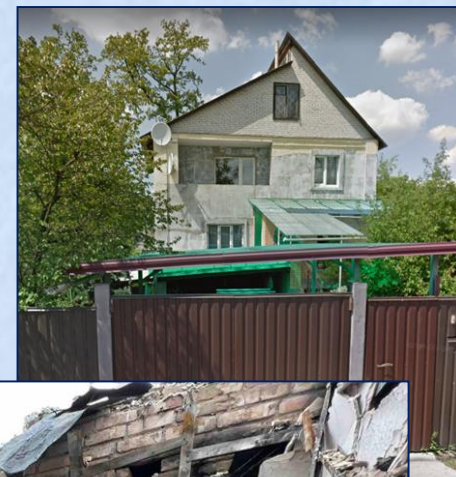
**764 kindergartens,  
direct loss is 0.7 bln USD**

**634 buildings of social and cultural  
significance,  
direct loss is 0.6 bln USD**

**36 religious buildings,  
direct loss is 0.1 bln USD**

**511 administrative buildings,  
direct loss is 1 bln USD**

Residential building  
attacked by rocket in  
the Irpin town,  
Kyiv region,  
Happy str. 24

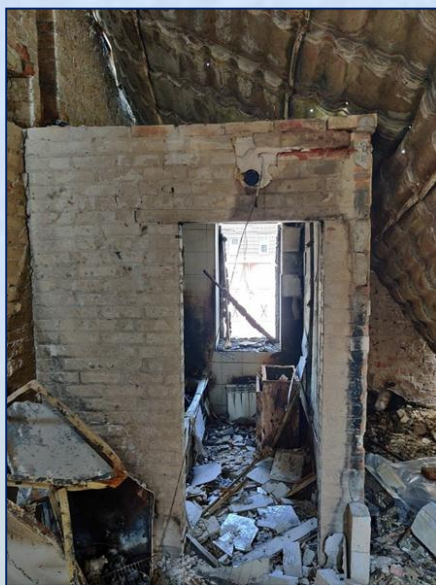




# DAMAGED BUILDING IN IRPIN, KYIV REGION, PUSHKINSKA STR 62



View of the  
building before  
February 24,  
2022



View after  
attacks of  
Russian troops in  
April 2022



# DAMAGED RESIDENTIAL BUILDING IN CHERNIGIV, CHORNOVOLA STR 15A



View of the building before February  
24, 2022



View after attacks of Russian troops in April 2022



# DAMAGED RESIDENTIAL BUILDING IN CHERNIGIV, CHORNOVOLA STR 15

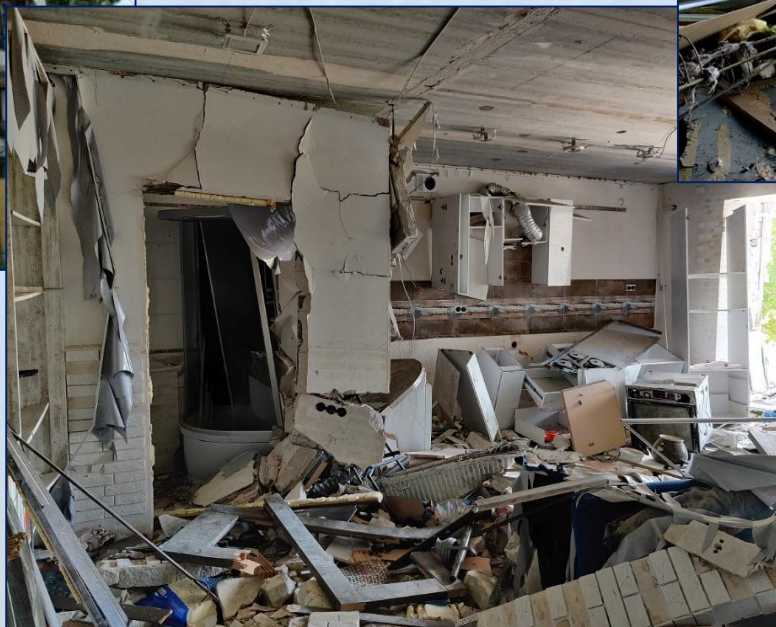


View of the building before  
February 24, 2022



View after attacks of Russian troops  
in April 2022

# RESIDENTIAL BUILDING IN CHERNIGIV, BELOVA STR 37, BUILDING 6



View after attacks  
of Russian troops  
in April 2022



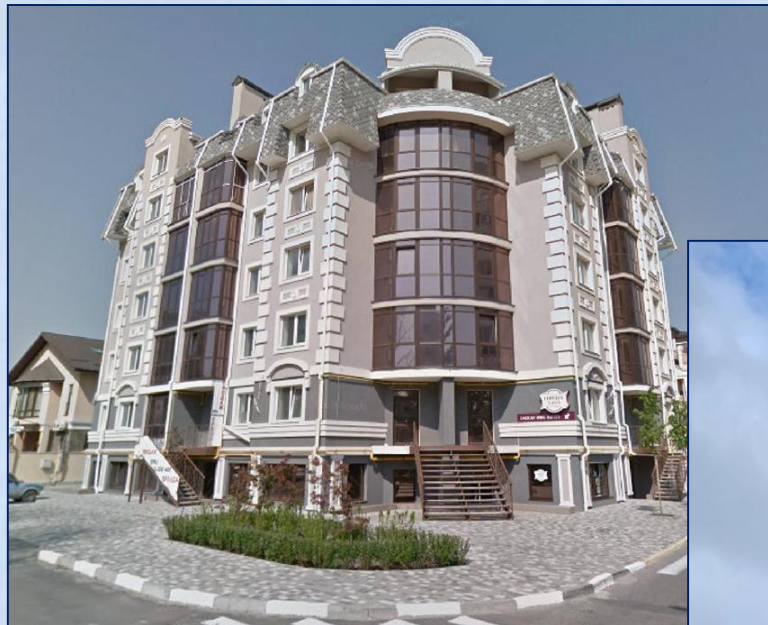
# HALF DESTROYED RESIDENTIAL BUILDING IN BUCHA, GMYRI STR 11/6



View after attacks of Russian troops in April 2022



# RESIDENTIAL BUILDING IN BUCHA, BOGDAN KHMELNYTSKY AVE, 11



View of the building in 2015



View after attacks of Russian troops in April 2022

## RESIDENTIAL BUILDING IN BUCHA, OLEKSY TYKCHOGO STR 4



**All buildings in the photos were surveyed by NIISK professionals to assess damages and to provide engineering solutions for reconstruction**

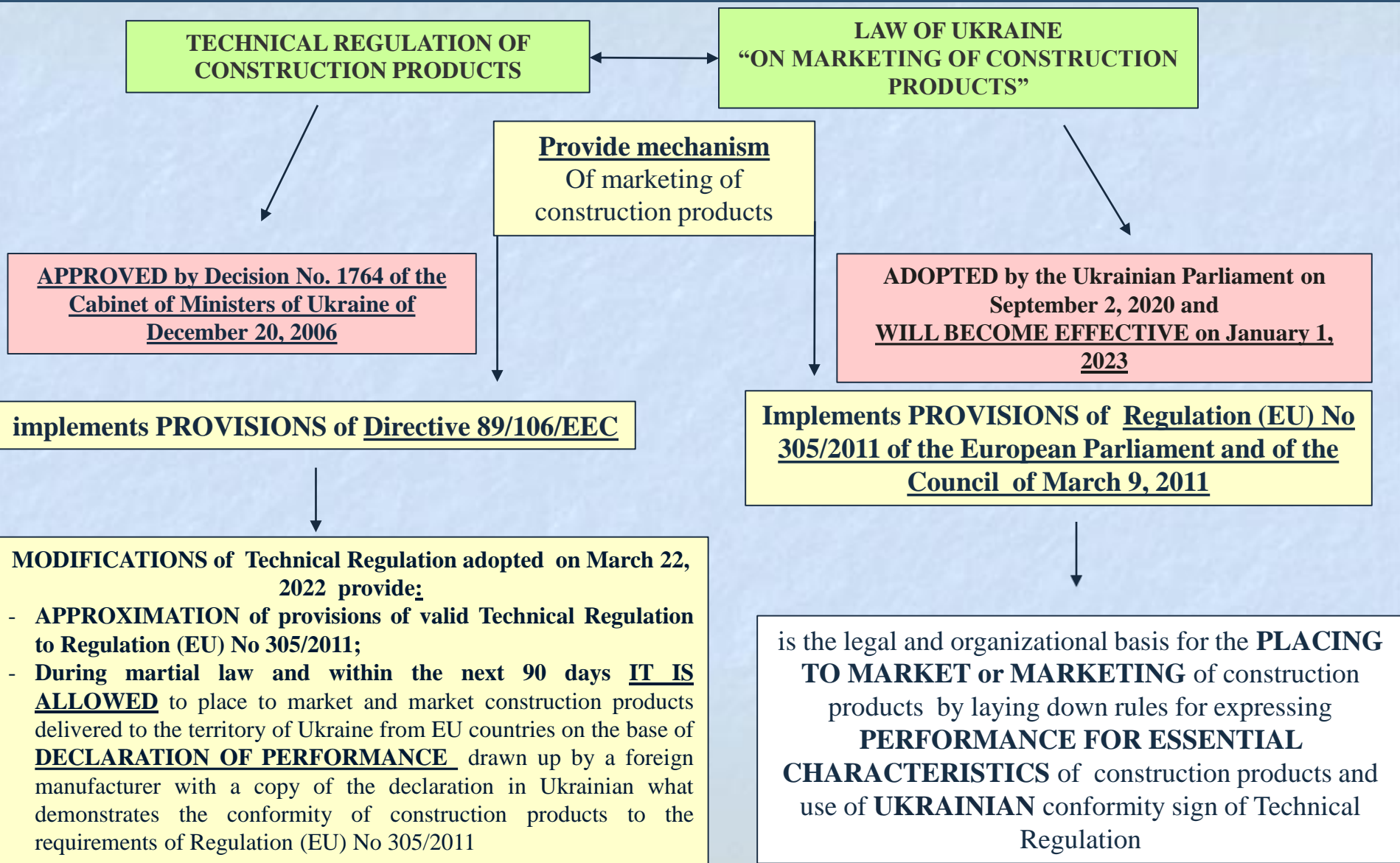


View after attacks  
of Russian troops  
in April 2022





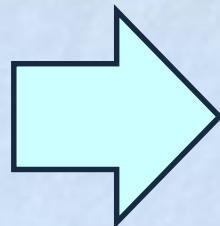
# IMPLEMENTATION OF REGULATION (EU) No 305/2011 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL IN UKRAINE



# DELEGATED LEGISLATION TO SUPPORT LAW OF UKRAINE “ON MARKETING OF CONSTRUCTION PRODUCTS”

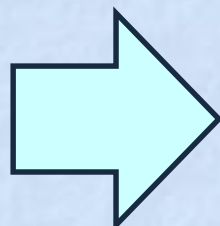


Decision No. 426 of the Cabinet of  
Ministers of Ukraine of **April 28, 2021**  
“On approval of areas of construction  
products”



**35 areas of construction products are  
listed**

Decision No. 596 of the Cabinet of  
Ministers of Ukraine of **June 9, 2021**  
“On approval of systems of assessment  
and verification of constancy of  
performance of construction products”



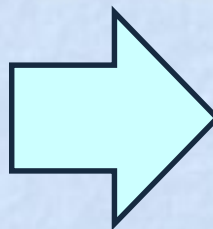
**Assessment and verification of  
constancy of performance of  
construction products establishes the  
following systems:**

- System 1+**
- System 1**
- System 2+**
- System 3**
- System 4**

# DELEGATED LEGISLATION TO SUPPORT LAW OF UKRAINE “ON MARKETING OF CONSTRUCTION PRODUCTS”



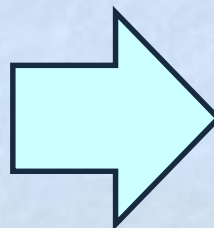
Decision No. 570 of the Cabinet of Ministers of Ukraine of **June 2, 2021**  
“**On modifications of (previous) Decisions of Cabinet of Ministers of Ukraine**”



- **State Inspection of Architecture and Urban Development is designated as MARKET SURVEILLANCE AUTHORITY**

- **Modifications introduced to the List of products to be monitored by the MARKET SURVEILLANCE AUTHORITY**

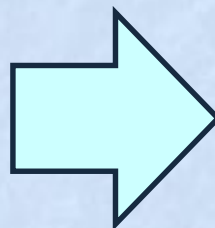
Decision No. 471 of the Cabinet of Ministers of Ukraine of **May 12, 2021**  
“**On the approval of the procedure for issuing, refusing to issue, canceling the certificate of designation of Technical Assessment Body, expansion of its scope and making changes to some Decisions of the Cabinet of Ministers of Ukraine**”



- **Sets the requirements for TABs designation and**
- **determines the product areas for which that TAB is designated**



Decision No. 1458 of the Cabinet of  
Ministers of Ukraine of **December 23,**  
**2021**  
“Specific issues of marketing of  
construction products”



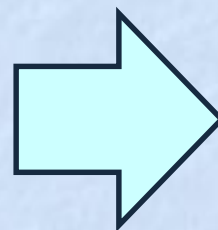
## ESTABLISHES:

- **Forms and Guidance for Drawing up of Declaration of Performance**
- **Procedure for adoption of Assessment Documents of Ukraine**
- **Form of Report on technical assessment**
- **Requirements for TAB competence**
- **Cases of essential characteristics where reference to relevant technical specifications is not required**
- **Use of test equipments other than own accredited test facilities**

# DELEGATED LEGISLATION TO SUPPORT LAW OF UKRAINE “ON MARKETING OF CONSTRUCTION PRODUCTS”



Decision No. 747 of the Cabinet of  
Ministers of Ukraine of **July 1, 2022**  
**“On modifications to procedure for  
Integrated state electronic system in the  
construction sector”**



Updates of Integrated state electronic  
system in the construction sector:

- List of national relevant standards,  
**European Assessment Documents**, and  
assessment documents of Ukraine
- Texts of **European Assessment  
Documents**, assessment documents of  
Ukraine, and National reports on technical  
assessment



# ORDERS ISSUED IN 2022 TO SUPPORT LAW OF UKRAINE “ON MARKETING OF CONSTRUCTION PRODUCTS”



Order No. 54 of the Ministry of Development of Communities and Territories of **February 18, 2022**  
**“List of national standards for the purposes of implementing Law of Ukraine “On marketing of construction products”**

*Corresponds to the List of standards published in Official Journal of the European Union*

**533 national standards of Ukraine which are identical to harmonized European standards (DSTU EN)**

Order No. 87 of the Ministry of Development of Communities and Territories of **May 30, 2022**  
**“List of European Assessment Documents”**

*Corresponds to the List of EADs and ETAGs published in Official Journal of the European Union*

**274 European Assessment Documents and European Technical Approval Guidelines (EAD, ETAG)**





Upon request of the Ministry of Development of Communities and Territories an **analytic research of European Mandates** has been done to determine essential characteristics, threshold levels, classes and assessment and verification of constancy of performance of construction products from each product area

**32 NATIONAL MANDATES**

**WHICH COVER**

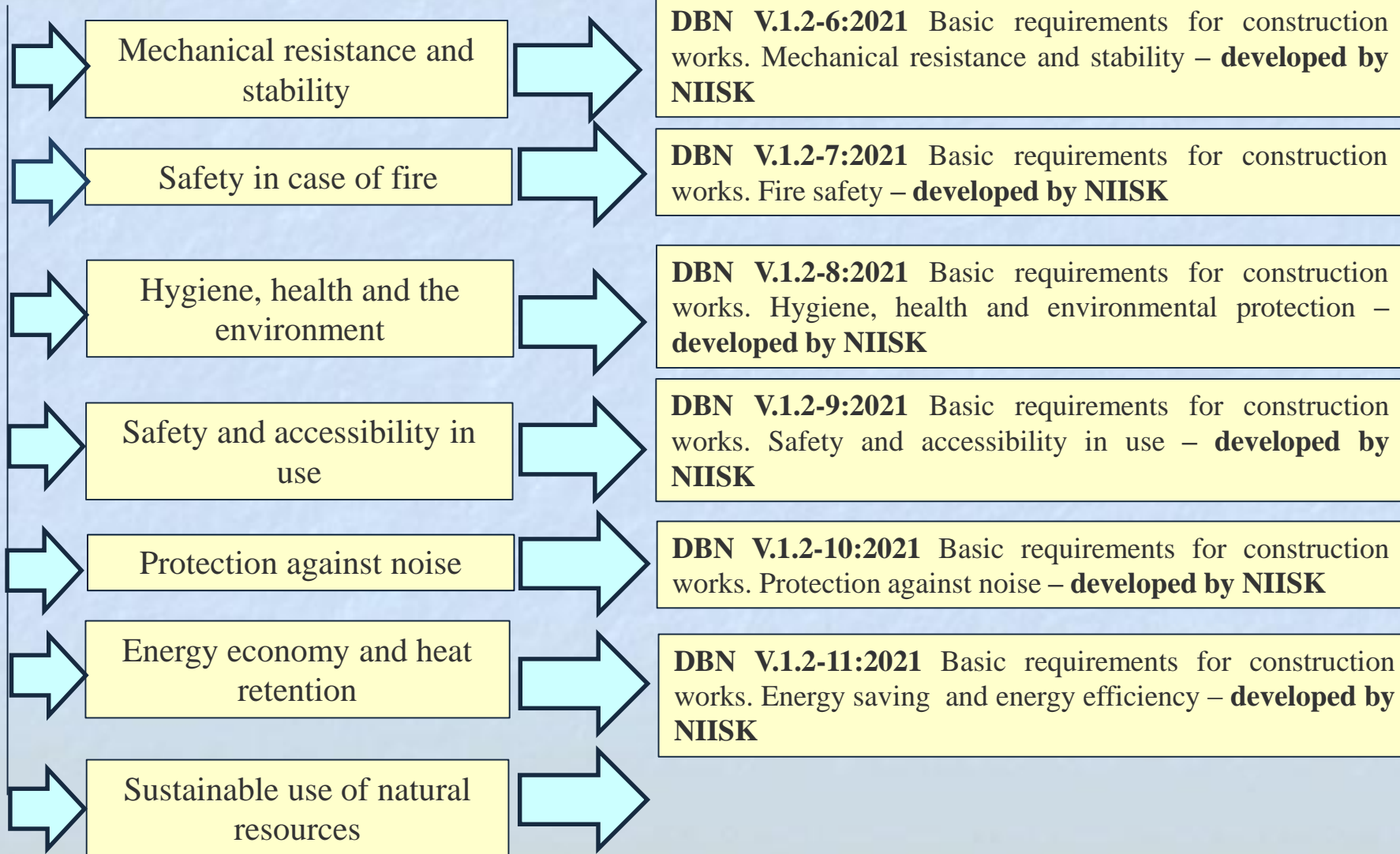
- **ESSENTIAL CHARACTERISTICS**
  - **LEVELS AND/OR CLASSES, AND AVCP OF CONSTRUCTION PRODUCTS**
    - **NATIONAL AND EUROPEAN TECHNICAL SPECIFICATIONS**
- FOR EACH PRODUCT AREA**



# STATE CONSTRUCTION NORMS (DBN) FOR THE PURPOSES OF ESTABLISHING BASIC REQUIREMENTS FOR CONSTRUCTION WORKS IN UKRAINE



## BASIC REQUIREMENTS FOR CONSTRUCTION WORKS





# EUROPEAN TECHNICAL APPROVAL GUIDELINES ADOPTED AS NATIONAL STANDARDS OF UKRAINE



For the purposes of

**TECHNICAL  
REGULATION OF  
CONSTRUCTION  
PRODUCTS**

**AND**

**LAW OF UKRAINE  
“ON MARKETING  
OF  
CONSTRUCTION  
PRODUCTS”**

**Prepared  
by NIISK**

## **DSTU ETAG 004:2021 (ETAG 004:2013, IDT)**

Guideline for European technical approval. External Thermal Insulation Composite Systems (ETICS) with rendering

## **DSTU N B ETAG 007:2013**

Guideline for European technical approval. Timber frame building kits (ETAG 007:2001, IDT)

## **DSTU N B ETAG 017:2013**

Guideline for European technical approval of VETURE kits - Prefabricated units for external wall insulation. (ETAG 017:2005, IDT)

## **DSTU N B ETAG 023:2013**

Guideline for European technical approval of prefabricated building units. (ETAG 023:2006, IDT)

## **DSTU N B ETAG 024:2013**

Guideline for European technical approval of concrete frame building kits (ETAG 024:2006, IDT)

## **DSTU N B ETAG 025:2013**

Guideline for European technical approval of metal frame building kits (ETAG 025:2006, IDT)



# NEXT STEPS FOR HARMONISATION OF UKRAINIAN AND EUROPEAN LEGISLATION IN THE FRAME OF REGULATION (EU) No 305/2011



## ACTION PLAN

- **To develop and adopt State Construction Norms for sustainable use of natural resources**
- **To make a list of international and regional standards which are referenced in harmonized European standards and to adopt them by translating into Ukrainian as identical national standards**
- **To follow updates of harmonized European standards and EADs to discover modifications, technical corrigenda or amendments and adopt them as national standards.**
- **For each product area, make a list of EADs and to adopt them by translating into Ukrainian as identical national standards**
- **To list equipments needed for tests which are given in relevant harmonized European standards**



# THANK YOU FOR YOUR ATTENTION!

