## Complex project

## Unmanned aircraft system for video monitoring of terrain with the aim of environmental protection and ecological control

# Research lines

## **Development of unmanned aircraft systems (UAS)**

**\*** Short-range UAS  $\underline{R=15-20 \ km}$ 

\* Medium-range UAS  $R=60-80 \ km$ 

✗ Long-range UAS <u>R=120-160 km</u>







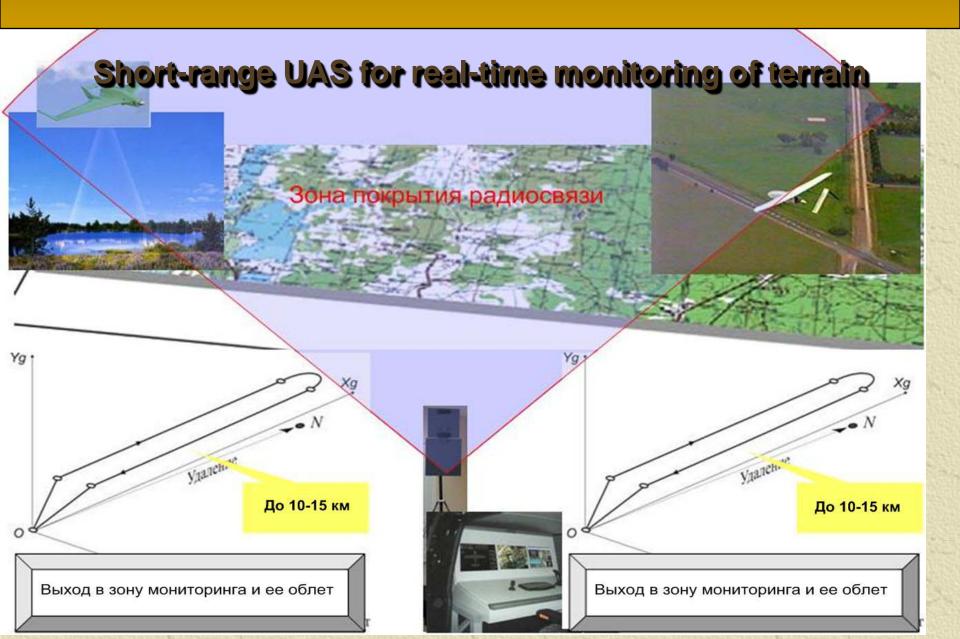
## Complex project

# Short-range unmanned aircraft system for video monitoring of terrain

## Short-range UAS



# PTI OF NAS OF Belarus



# Project description

#### Aim of project concept:

Development of UAS for ecological monitoring of:

- Industrial pollutant emissions
- Territories of national parks, woodlands and water areas for the purpose of protection of flora, fauna and environment
- \* Terrain and objects for the purpose of prevention and efficient detection of ecological catastrophes and fires
- \* Natural disaster regions, main traffic arteries and pipelines
- Law and order and frontiers.

### **Expected benefits:**

- •Increase of environment quality
- •Preservation of unique flora and fauna
- •Prevention of ecological catastrophes and their localization
- •Banning of crossing of UC frontiers by illegal emigrants.

# Description of project concept

## **1. SSI "PTI of NAS of Belarus" is responsible for:**

- 1.1. Development and manufacturing of UAS containing:
- Hardware and software of control point
- UAV of required range
- Set of communication facilities
- Spare kit and UAV launching aids
- 1.2. UAV onboard integration of monitoring equipment
- 1.3. Series manufacturing and warranty maintenance.

#### 2. Cooperating co-executor is responsible for:

- 2.1. Delivery of set of airborne sensors for surveillance of industrial pollutant emissions in airspace
- 2.2. Delivery of airborne TV systems of video monitoring
- 2.3. Delivery of airborne IR systems of video monitoring.