



# New challenges of present & future military activities - Polish helicopter sector's answer

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EDA Conference –2009: "Helicopters – Key to Mobility", 10 March 2009, Brussels





#### New threats & new challanges

- $\overset{\prime\prime}{\mathcal{O}}$  Military operations shall take form of armed interventions.
- Ø Intervention operations shall be the main activity form of the Polish Armed Forces.



- Ø The Land Forces shall become a qualitatively new army formation of a high mobility and manoeuvrability.
- Ø Stabilisation forces shall be the largest, in terms of the manpower, set of the armed forces.
- Ø Stabilisation forces shall monitor observance of the economic embargos, separate parties to a conflict, monitor ceasefire and neutralise forces trying to destabilise the process of political, social and economic stabilisation. "

from Vision of the Polish Armed Forces 2030

Ø ESDP operations will be expeditionary, multinational and multi-instrument, directed at achieving security and stability more than "victory", from the Long-Term Vision report published by the European Defence Agency in October 2006





#### New threats & new challanges

- Poland participates in the most of NATO operations: in Afghanistan (ISAF), Kosovo (KFOR), Iraq (training mission NTM-I), in the Mediterranean Sea (Active Endeavour) and in others including anti-terrorist actions as well as support human help actions.
- The nature of potential activities and conflict regions needs great mobility troops. Helicopter is the best key to reach it.
- The experiences from previous and existing military operations drive helicopters' modernization and create develop of new one.

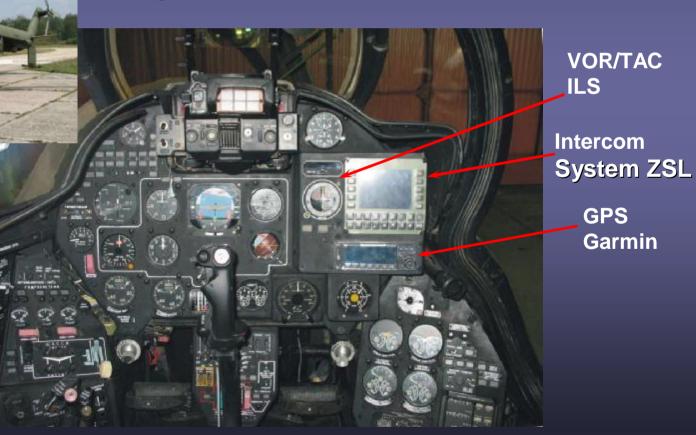


### Mi-24W helicopter upgrading

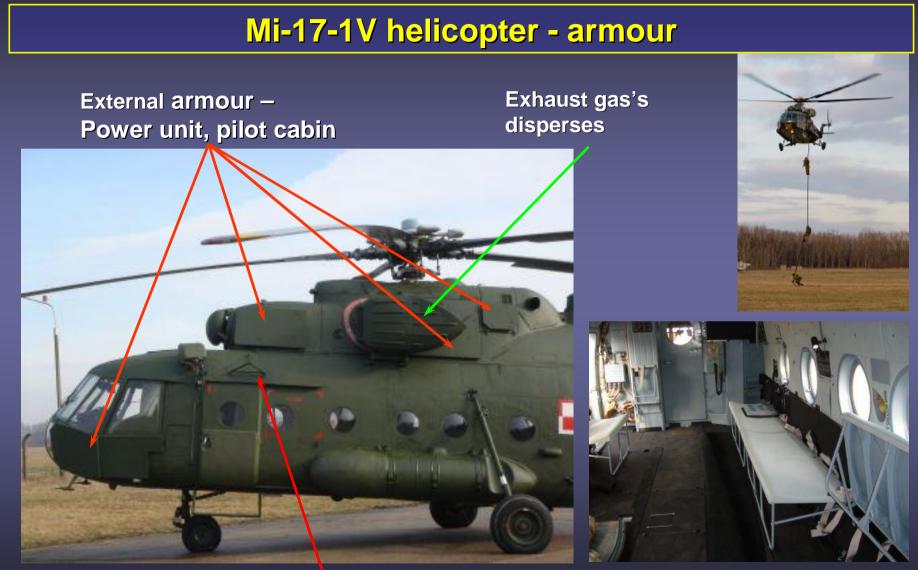


Internal and external lights adapted for NVG

Infrared jamming station - ADROS







External stand for soldiers landing

Armour transport cabin



#### Adaptation Mi-8 helicopter to SAR configuration



SX-16

FLIR System Additional step

Hoist with Lucas system Rescue equipment



## **Mi-17 AE helicopter upgrading** Air conditioning Stretchers fix frames Rescue equipment Life rescue Oxygen equipment system **Power supply** 230V/50Hz 12VDC



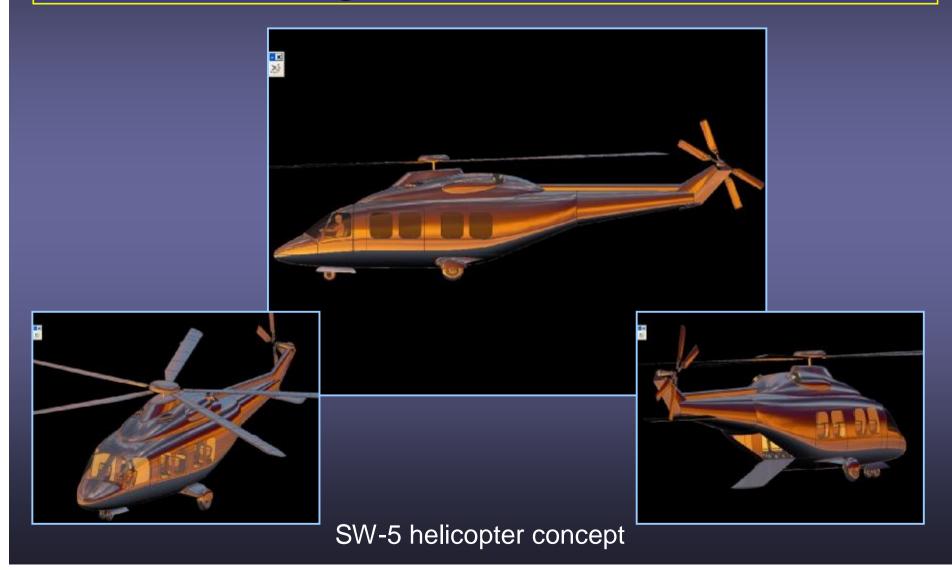


Turret gun with 12,7mm WKM-B Enforced pylons for UPK-23 and NATO standard armament

Chaff /flares disperser Works in realization at PZL-Swidnik



#### Programme Sokol II / SW-5





#### **Programme Sokol II / SW-5**



ü Take off mass 7000 -7500 kg
ü Payload mass 2800÷3000kg
ü 2 +14 soldiers fully equipped
ü Max. speed > 300 km/h
ü Max. range: 1000 km
ü Transport / Medevac versions

SW-5 helicopter concept – military versions

Works in realization at PZL-Swidnik

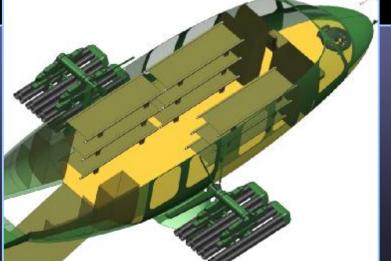


#### Programme Sokol II / SW-5





Transport & Medevac versions



Works realized by PZL-Swidnik



### SW-4 Programme – Training and liaison version



#### **SW-4 Programme Training and liaison version**





#### **Main modifications**

- **ü** radio and navigation equipment modification
- in training version, introduction additional helicopter`s flight control instruments (for instructor) and panel for imitation of damages and failures
- **ü** adaptation for flights with NVG
- **ü** equipment for flights simulation IFR





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