

PARTICIPATION IN 7-th EUROPEAN FRAME PROGRAMM



AN-148-100 Regional Passenger Aircraft



- Accompany serial production
- Accompany operation in air companies

► Passenger capacity - 85 pax.

▶ Range - 4400 km

Cruising Speed - 850 km/h



AN-158 New Regional Passenger Aircraft



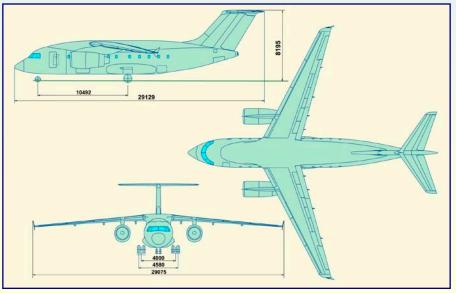
- Certifications works, including test flays
- Startup serial production

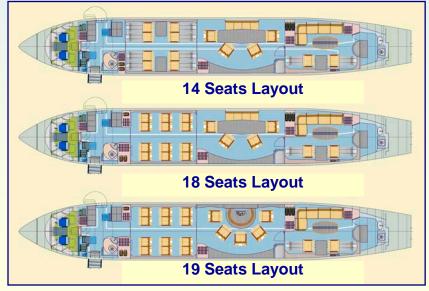
- ► Passenger capacity 99 pax.
- ► Range 3000 km
- Cruising Speed 850 km/h

AN-168 New Business Jet Aircraft



- ▶ Passengers up to 19 pax.
- ▶ Range 7000 km
- Cruising Speed 850 km/h





New Modification. AN-124-200 Aircraft



- Resume of serial production
- "Glass" cockpit
- Digital avionics and aircraft systems
- 80% Extension of Service Life



AN-70 current works



- Upgrading power plant
- Upgrading systems
- Ending of flight tests
- Continuation of static strength tests
- Start of the aircraft serial production

Antonov-70 Military & Civil STOL Aircraft

- ► Troops and vehicles
- Armoured cars and helicopters
- Large-size and long-size cargoes
- Standard containers and pallets
- Suitable for unpaved runways
- Airdropping

Modification AN-32 Aircraft





Upbraiding cockpit cabin and electrical systems

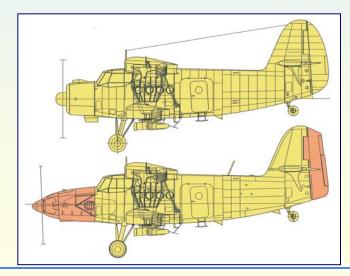
- ► Payload 8 T
- Range (with 4,15 t) 5100 km
- Cruising speed 530 km/h
- Wide range of operational conditions:
- hot climate (up to +55°C);
- high-level mountains (up to 4500 m);
- humid marine climate;
- short unpawed runways

AN-3-300 - multipurpose aircraft





Aн-3-300 –developing of Aн-2 aircraft. Retooling AN-2 in AN-3-300 consist in change of piston engine on turboprop MC-14 by OAO «Motor-Sich» (Zaporozhe).

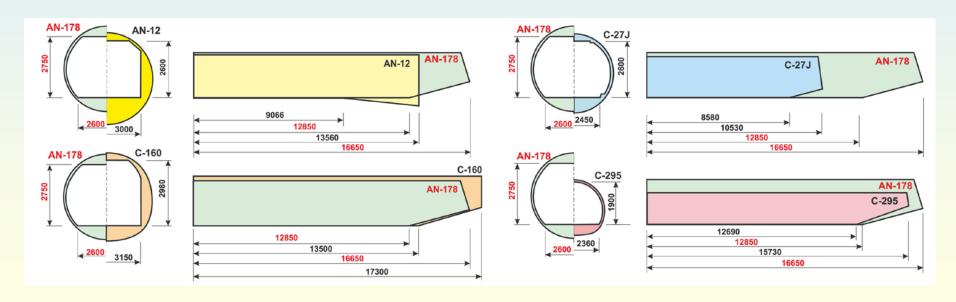


New Project. Antonov-178 Aircraft



- Payload 15 t
- Range:
 - with 15 t 1200 km
 - with 10 t 3200 km
- Cruising speed 825 km/h

Cargo cabin of AN-178 in comparison with analog aircraft



Ukraine-EU Aeronautics Co-operation

Participation Antonov Company in European program FP7



Research of the Aircraft Wing, Equipped with the Adaptive Winglets

SARISTU Project: Adaptive Winglets Adaptive Winglets

Idea: allow controlling the air circulation of the wing during the flight;

- increasing the effective aspect ratio of the wing during the cruising flight;
- decreasing the effective aspect ratio of the wing at the critical flight;



- ✓ increasing aerodynamic quality for cruising flight;
- ✓ decreasing bending moment of wing torsion box end wing weight.
 - ✓ better flight performance;
 - ✓ fuel saving;

SARISTU Project: Adaptive Winglets

Research objects list

Materials: Aerodynamic research: - SARISTU form configuration and flying position; increasing quality; weight. changing of wing load; **Design:** Testing:

Stress research:

- changing of load;
- decreasing torsion box

- airframe structures:
- movable parts;
- driving mechanism

- aerodynamic testing;
 - stress testing.

Recommended guideline:

- economic effect;
- designing for aircrafts;
- design certification.



THANK YOU FOR YOUR ATTENTION!

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