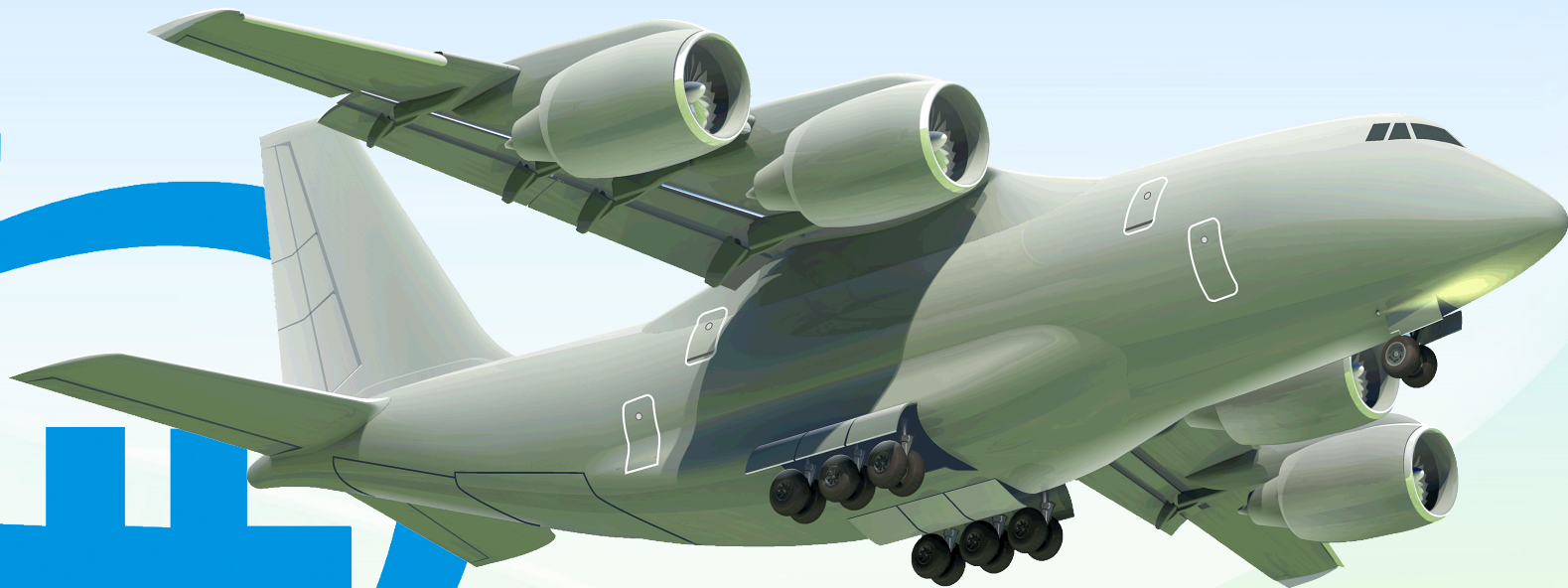




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 **sampe**
Summit 19 Paris



Freight Airplane Transport Efficiency – The Antonov Outlook



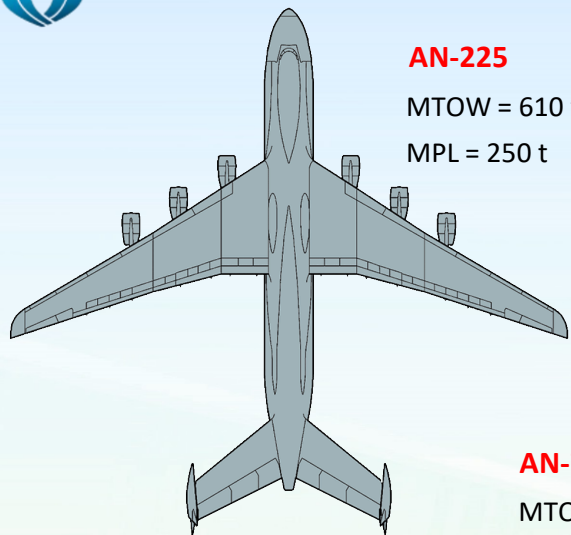
- ▶ More than **70** years of operations
- ▶ More than **100** aircraft types and modifications, **22.000** aircraft built
- ▶ High-skilled professionals: researchers, engineers, test personnel, and workers
- ▶ Design bureau, **15** research laboratories
- ▶ **640.000 sq.m** of production facilities

World-class aircraft building school





ANTONOV's Family of Transport Aircraft



AN-225

MTOW = 610 t

MPL = 250 t

AN-124-100M-150

MTOW = 402 t

MPL = 150 t

AN-188

MTOW = 145 t

MPL = 47 t

AN-178

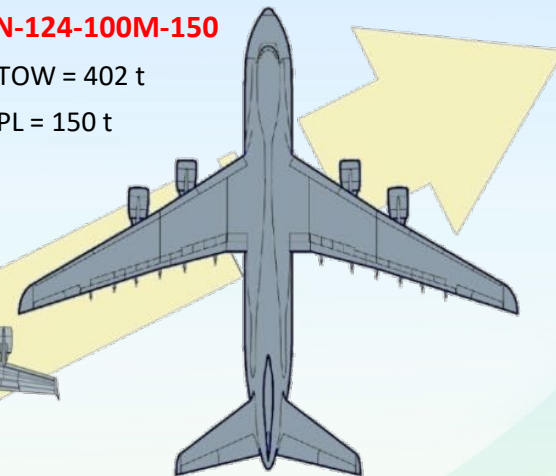
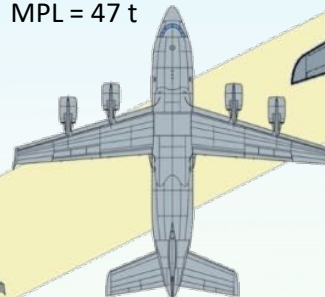
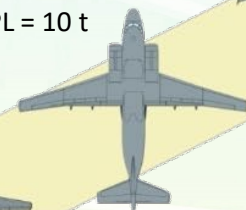
MTOW = 52.4 t

MPL = 18 t

AN-74-200

MTOW = 36.5 t

MPL = 10 t



AN-32 / AN-132

MTOW = 28.5 / 31.5 t

MPL = 8 / 9.2 t



AN-38

MTOW = 9.95 t

MPL = 2.5 t



AN-2-100

MTOW = 5.69 t

MPL = 1.5 t



**ANTONOV
COMPANY**



AN-124 – Increasing of Service Life and Upgrading of Aircraft

Reliable operation up to 2037÷2040



125% extension of service life

Future
Improvement

- ▶ “Glass” cockpit
- ▶ Digital avionics and aircraft systems
- ▶ Modernized airframe
- ▶ Variant with alternative engines
- ▶ Expansion of application range on temperature and an airfield height

Before

- 20 Years
- 4.000 Flights
- 15.000 Hours

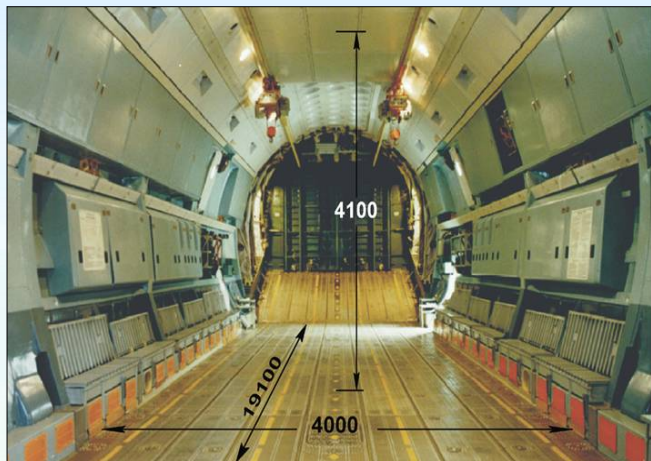
Now

- 45 Years
- 10.000 Flights
- 50.000 Hours

Step-by-step Upgrading
of Aircraft

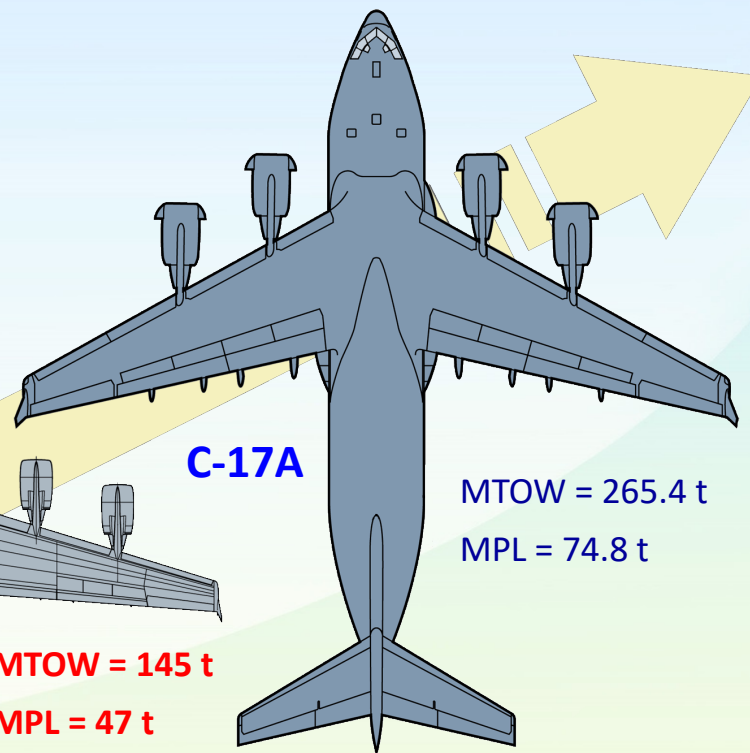
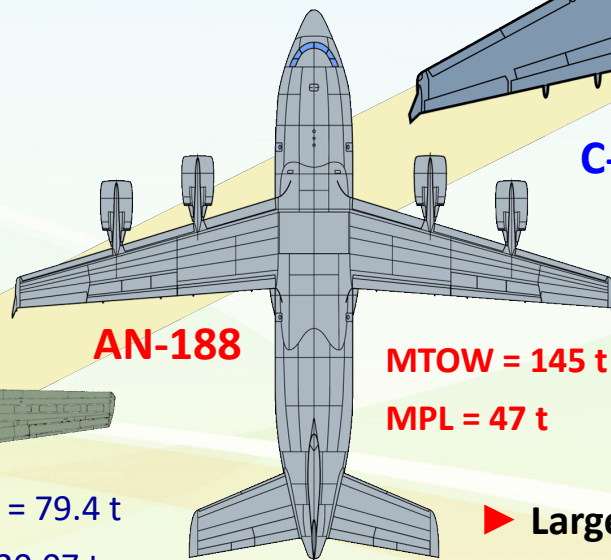
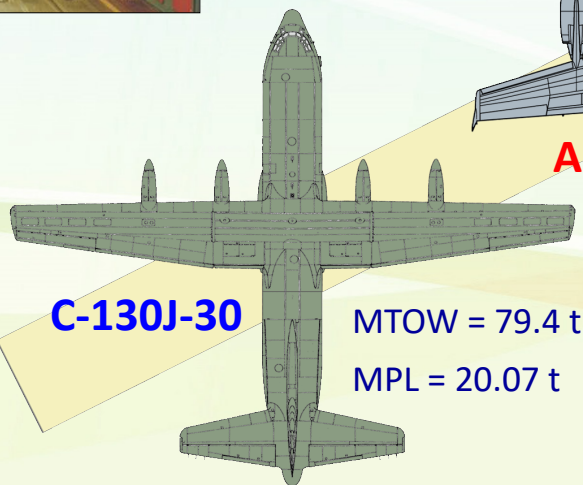


AN-188 – STOL Military Transport Aircraft



AN-188:

- 47 t payload
- 300 soldiers
- 110 paratroopers
- 206 wounded



- ▶ Large dimensions of cargo cabin
- ▶ On-board handling equipment
- ▶ Landing gear with kneeling function

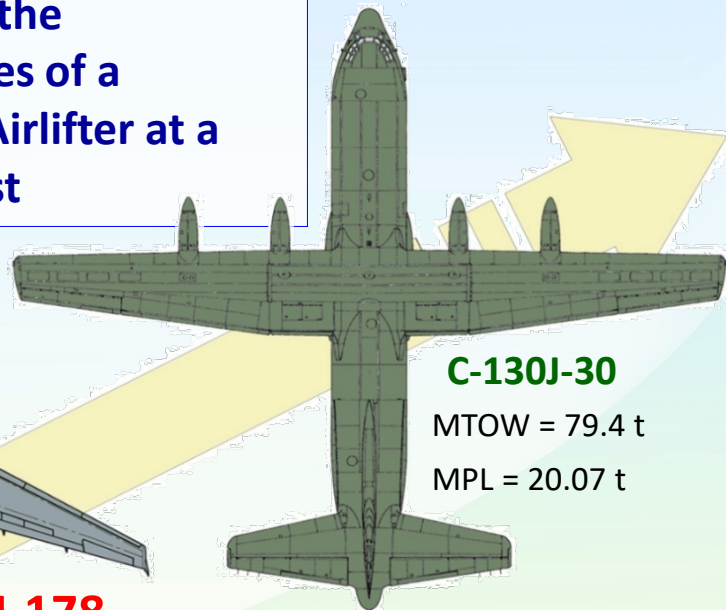


AN-178 is Optimal Replacement of AN-12 and C-160 Aircraft

AN-178 – the Possibilities of a Medium Airlifter at a Lower Cost



AN-178



C-130J-30

MTOW = 79.4 t

MPL = 20.07 t

AN-178

MTOW = 52.4 t

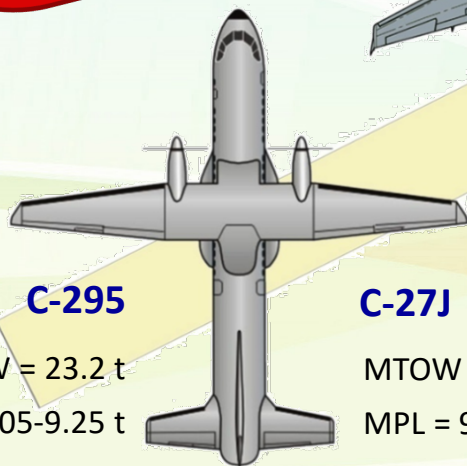
MPL = 15-18 t

➤ **18 t of cargoes**

➤ **Aviation containers**
All types of pallets

➤ **Pressurized cargo cabin**

➤ **Dual civil/military application**



C-295

MTOW = 23.2 t

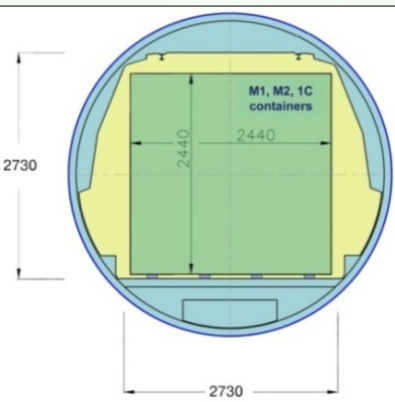
MPL = 7.05-9.25 t



C-27J

MTOW = 30.5 t

MPL = 9.0-11.5 t



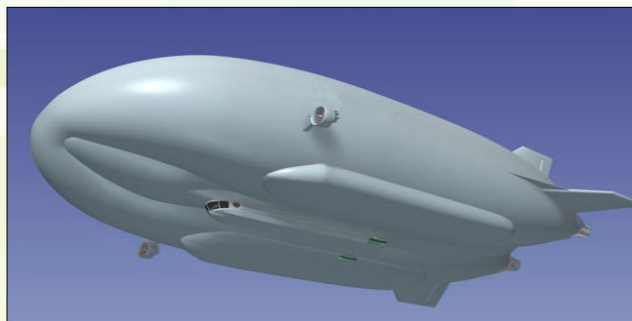


- ▶ **To be Green** (low noise, low emission)
- ▶ **To be Cost Efficient** (low fuel consumption, low maintenance cost, low time of loading and unloading)
- ▶ **To be Safe and Secure**
- ▶ **To provide Growth Market**
- ▶ **To provide Long Live Ability**
(service life up to 50-60 years)
- ▶ **To provide Wide Range of Operation**
(different climatic conditions, high-level operation - up to 4500 m, unpaved airfields)
- ▶ **To provide STOL Capabilities**
- ▶ **To be Autonomous in Operation**
- ▶ **To provide Easy Loading/Unloading**
(modern handing equipment, reconfigurable cargo cabin)





There are many Different Projects...





- ▶ Improvement of Aircraft Aerodynamic
- ▶ Improvement of Aircraft Structure, New Materials
- ▶ Improvement of Avionics and Aircraft Equipment
- ▶ Installation of Avionics and Systems with Low Energy Consumption
- ▶ Installation of Modern Engines
- ▶ “More Electrical” Aircraft Configuration
- ▶ Improvement of MRO Philosophy
- ▶ Short Take-off and Landing





THANK YOU FOR YOUR ATTENTION!

