



# UkrRIAT

Ukrainian  
Research  
Institute of  
Aviation  
Technology



UkrRIAT developed aircraft manufacturing technologies and produced tools for the following types of aircrafts:

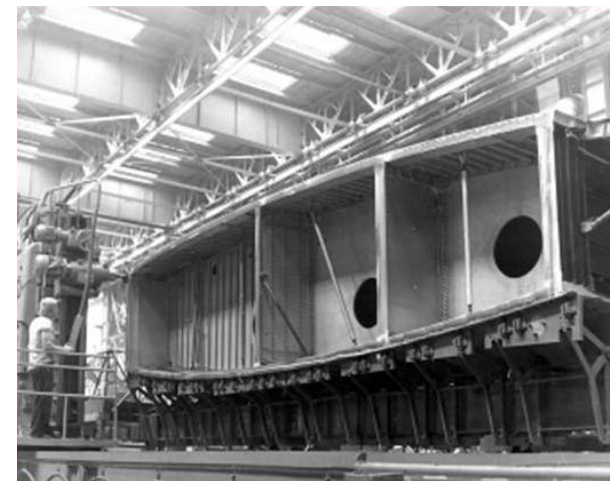
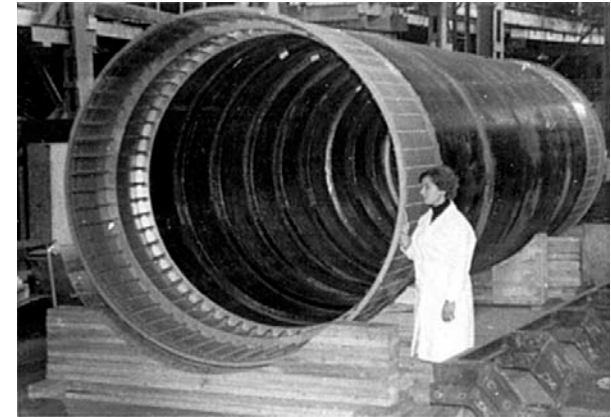
- ❑ An-14M, An-12, An-10, An-38, An-22, An-24, An-6, An-32, An-72, An-74, An-28, An-124, An-225, An-70, An-140, An-148
- ❑ Tu-124, Tu-134, Tu-334, Tu-160, Tu-154, Tu-204
- ❑ IL-76, IL-86, IL-96, IL-114
- ❑ «Buran»
- ❑ Yak-40, Yak-42
- ❑ MiG-29
- ❑ Su-24, Su-27, Su-80
- ❑ L-610, EV-55
- ❑ Y8F600
- ❑ SSJ-100
- ❑ Be-200



## 01 ABOUT UkrRIAT

### FACTS

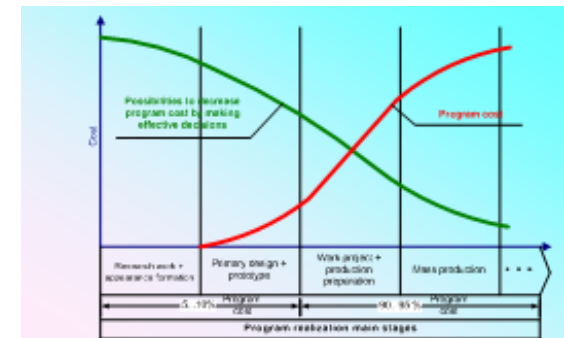
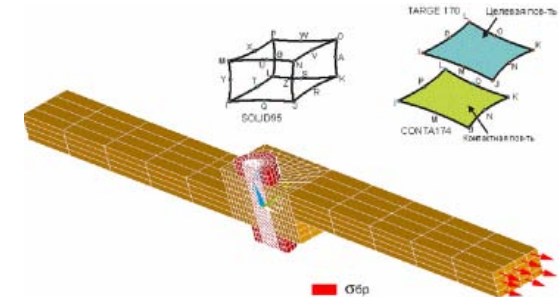
- ❑ Established in 1964 as a subsidiary of Moscow NIAT, headquartered in Kiev, Ukraine
- ❑ Renamed as UkrRIAT in 1991
- ❑ Total income 2009                      2 Mio. €
- ❑ Approximately                              100 employees
- ❑ Worldwide active, focus: CIS, Asia, Europe
- ❑ Business Divisions:
  - ❑ Aircraft manufacturing technology
  - ❑ Aircraft manufacturing tools
  - ❑ Consulting
  - ❑ Publishing



## 01 ABOUT UkrRIAT

### RESOURCES

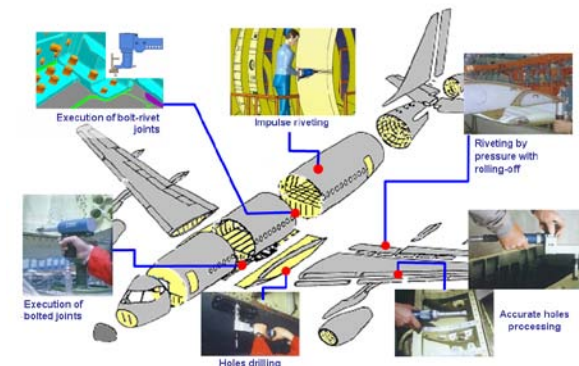
- ❑ Approximately 40 engineers, of them 5 with PhD degree with an intensive technological collaboration across all business units
- ❑ Close collaboration with aircraft industries, universities and institutes, including of Academia
  - ❑ Antonov
  - ❑ Sukhoi
  - ❑ Airbus
  - ❑ Aviation Institute of Kharkov
  - ❑ Polytechnic Institute of Kiev
- ❑ 45 years at the market of High-Tech including aircraft industry



## 01 ABOUT UkrRIAT

### WE FOCUS ON:

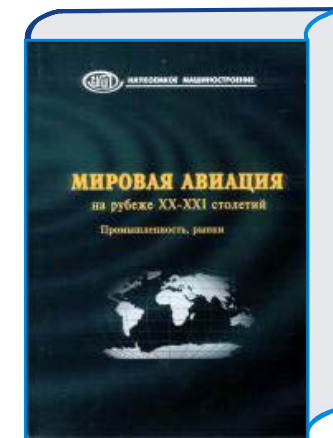
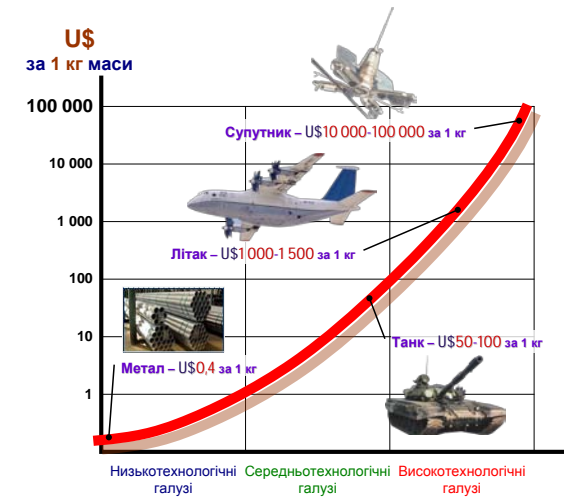
- ❑ Development of programs, forecasts and analysis for aircraft and other High-Tech industries
- ❑ Development of standard documentation for aircraft production
- ❑ Development of documentation for the aircraft production quality assurance system and certification of enterprise
- ❑ Aircraft life cycle support with standard documentation, methodology and information
- ❑ Aircrafts and aircraft-manufacturing production lines technological designing
- ❑ Research and development of effective technologies and tools for assembling crucial highly loaded joints of the airframe components and strengthening structures in the area of functional holes



## 02 DOCUMENTATION

### PROGRAMS, FORECASTS, ANALYSIS:

- ❑ State Program for the Development of Ukrainian Aircraft Industry for the period up to 2010
- ❑ Draft State Program for the Development of Ukrainian Aircraft Industry for the period up to 2020
- ❑ State Program for Defense Industry Reforming and Development for the period up to 2010
- ❑ State Complex Program for High Technologies Development
- ❑ Program for the Aircraft Industry Modernization
- ❑ Worldwide aviation at the border of XX-XXI centuries. Production and markets
- ❑ Manufacturing of passenger and transport aircraft in 1998-2000. Analytical review



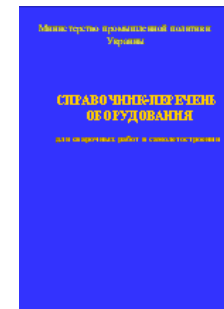
## 02 DOCUMENTATION

### STANDARD DOCUMENTATION:

Standard documentation in the area of aircraft manufacturing, certification basis setting up, methodological and information support of aircraft life are developed.

Main items are as follows:

- ❑ Corporative technological regulations
- ❑ Methodical and reference documentation for production preparation and manufacturing processes
- ❑ Documented procedures for quality management assurance



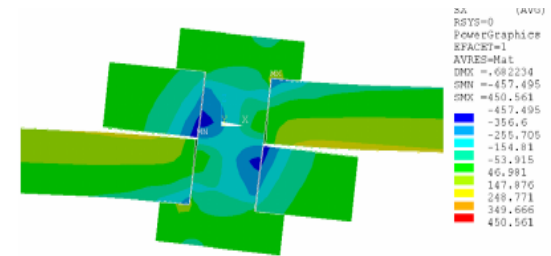
## 02 DOCUMENTATION

### TECHNOLOGICAL DOCUMENTATION:

Technological design of aircrafts and aircraft manufacturing enterprises.

Main items are as follows:

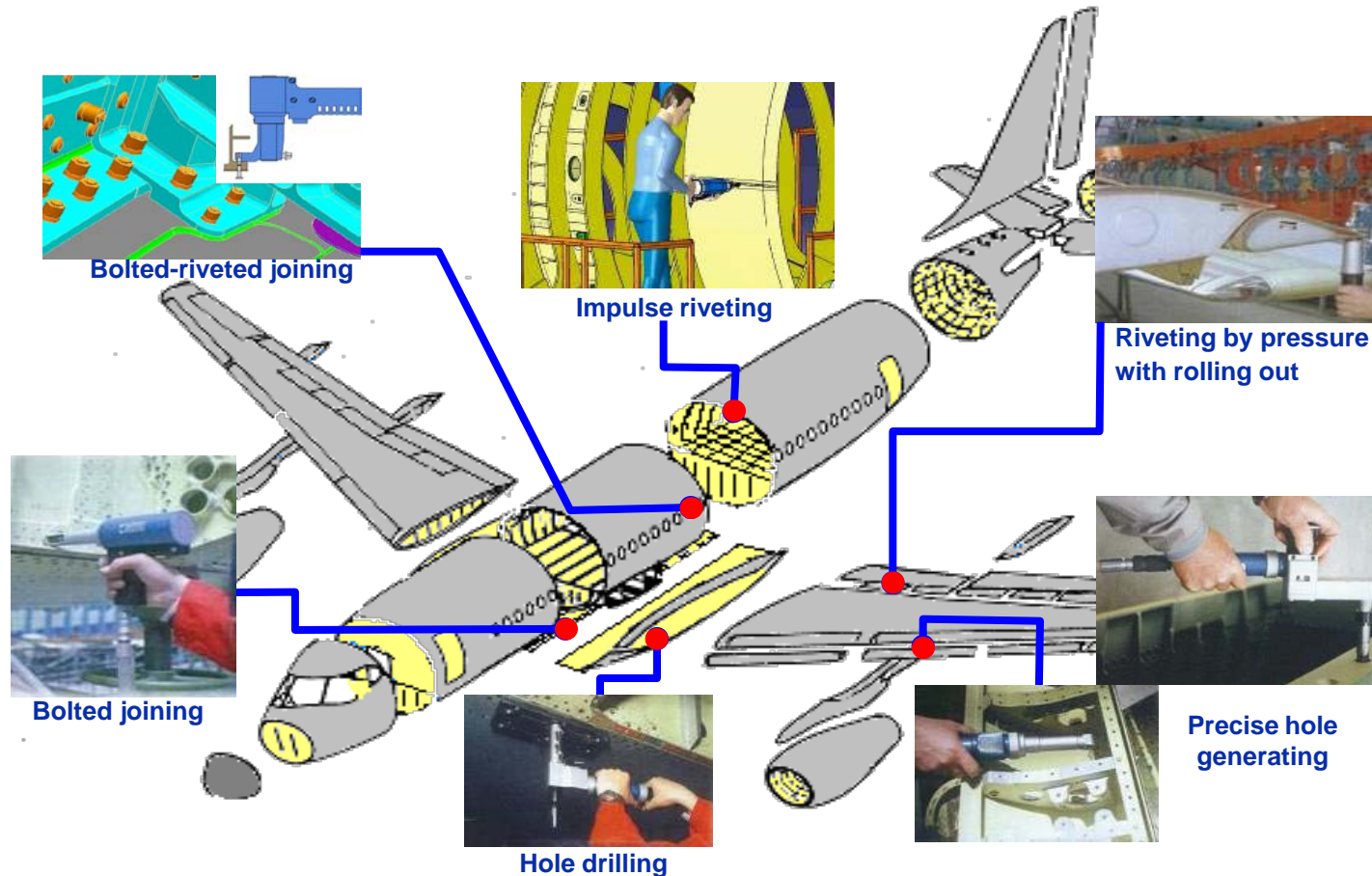
- ❑ Analysis and revealing courses for manufacturability of aircrafts
- ❑ Development of directive technologies adapted for an enterprise IT
- ❑ Development of documentation for an enterprise organization and management
- ❑ Formation of technological riggings data base necessary for aircraft production





## 03 DIVISIONS

### SUMMARY OF TECHNOLOGIES FOR THE AIRFRAME STRUCTURE COMPONENT ASSEMBLING



# UkrRIAT in AERO UKRAINE Project

**In November, 2009 UkrRIAT initiated a proposal to be a coordinator for participation of the aircraft manufacturing companies of Ministry of Industrial Policy of Ukraine in Aero Ukraine Project.**

**Ministry of Industrial Policy of Ukraine approved this initiative on November 26, 2009.**

**In December, 2009 Ministry of Industrial Policy of Ukraine informed Head of Unit of Aeronautics, EU about its decision to appoint UkrRIAT as a coordinator for participation of the aircraft manufacturing companies under the Ministry in Aero Ukraine Project.**

**Response was rather positive.**

**In January, 2010 UkrRIAT as a coordinator informed 10 aircraft manufacturing companies of Ukraine about Aero Ukraine Project and proposed them to formulate their possible areas of research.**

**There were 5 responses. Of them 3 companies now are trying to find their opportunities to be included into the list of participants of research in FP7, namely:**

**Antonov;**

**UkrRIAT;**

**Ivchenko-Progress.**

**In response to request of Ukrainian side, the workshop led by Airbus was arranged in Toulouse in May, 2010 to let Antonov and UkrRIAT be familiarized with experience regarding preparation and running of European Research Projects.**

**In June, 2010 UkrRIAT and Antonov remitted their proposals regarding possible participation in SARISTU project.**

**In June, 2010 UkrRIAT sent to Ivchenko-Progress information regarding LEMCOTEC and ACTUATION 2015 projects.**

**Proposals of Antonov and UkrRIAT are under preparation.**

**THANK YOU FOR YOUR ATTENTION!**

**Victor Shulepov**  
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