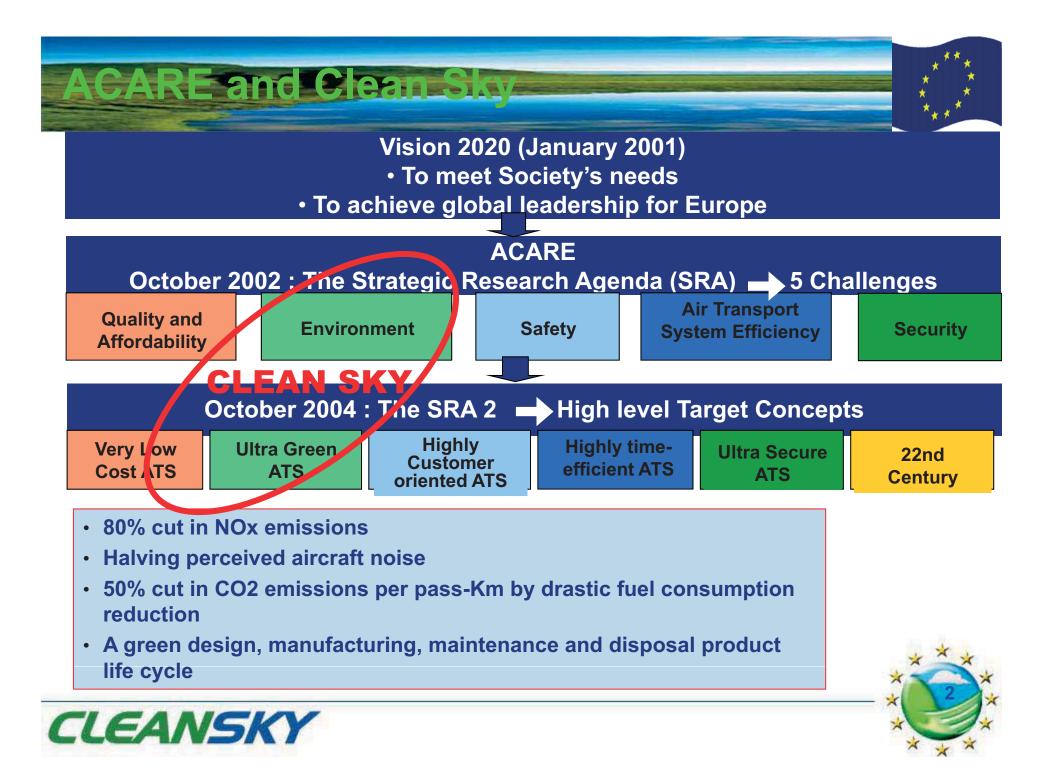


European Rotorcraft Forum Hambourg, September 22<sup>nd</sup>, 2009



# Clean Sky

## Eric Dautriat, Executive Director



#### **Public-Private Partnership between Commission and Industry**

- **\* Start: 02/2008**
- \* 7-year research project on Greening of Aeronautics: 2008-2014
- ♦ Total budget 1.6 billion €
  - ▶ 800 million € from Commission in-cash
  - ▶ 800 million € from industry in-kind
- An independent legal entity ("Community Body"), will employ own staff of 18 persons and place the contracts / grant agreements
- In Interim Phase, the Joint Undertaking is run by Commission services; <u>autonomy</u> of the Joint Undertaking foreseen for mid-October 2009





# Integrated Technology Demonstrators (IIID)

#### **ITD Leaders:**

- SMART Fixed Wing:

   Airbus (F, D, UK, E) SAAB (SE)

   Green Regional Aircraft

   Alenia Aeronautica (I) EADS CASA (E)
- Green Rotorcraft
  - AgustaWestland (I, UK) Eurocopter (F, D)
- Green Engines
  - Rolls-Royce (UK)
     Safran (F)
- **\*** Systems for Green Operation
  - Thales (F)
     Liebherr (D)
- Ecodesign
  - Dassault Aviation (F)
     Fraunhofer Gesellschaft (D)







Clean Sky is focused on reaching high Technology Readiness Levels:

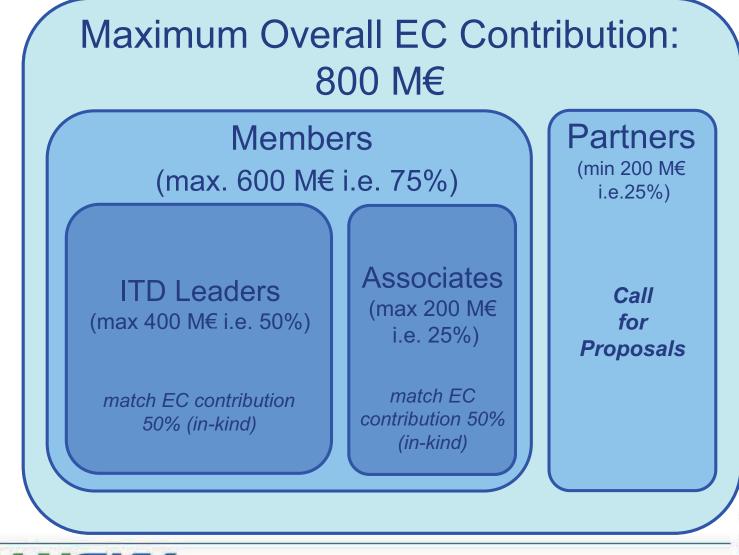
It will result in demonstrators at « system » level, including in-flight demonstrators

Keeping the schedule is key to provide for these demonstrations in time for the next generation of aircraft





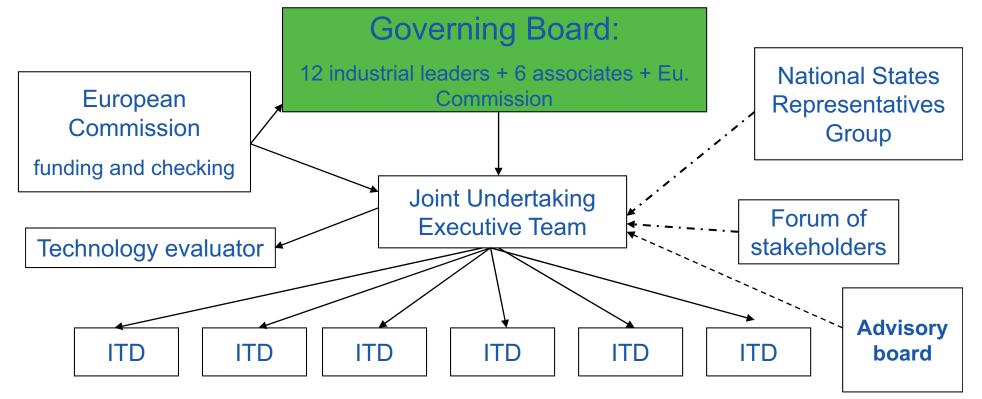












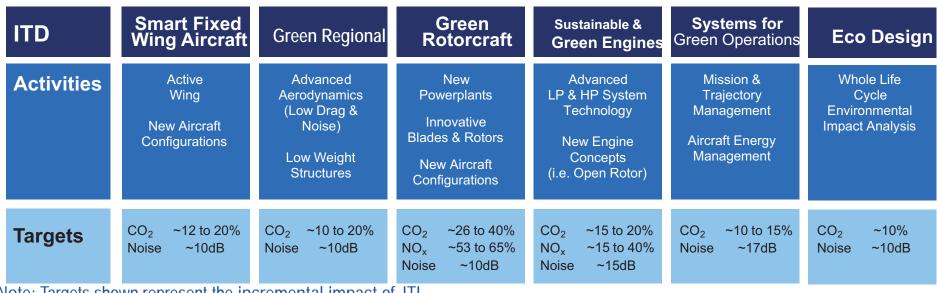
ITD: integrated Technology Demonstrator







#### **Technology Evaluator**



Note: Targets shown represent the incremental impact of JTI





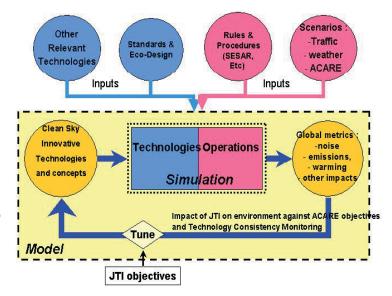
### Clean Sky Lechnology Evaluator

#### A networked simulation suite

 That will <u>translate the impact of</u> <u>innovative technologies</u> in term of overall ATS performance wrt environmental challenges

#### A networked simulation suite

- contribution of R&T activities in the platforms in relation to ACARE SRA targets
- monitoring tool
- guidance and justification
- consistency within <u>each</u> platform and between <u>all</u> the platforms









- Calls managed by the Joint Undertaking
- Not «open» in scope, but very targeted to contribute to the Demonstrators
- Single entities can apply one proposal selected by topic
- Description of Topics made by industry (checked by the JU)
- Direct industrial participation in evaluation







- ▶ 1st Call for Proposals launched on June15th, 2009:
- 72 topics
- ▶ Funding up to 25.6 million €
- Evaluation took place mid-September

with good results despite some topics unanswered, some with no acceptable proposal

- Contracts will be signed before end of the year
- Some lessons to learn from this first call; in 2010, 2011,..., 3 or 4 calls a year







A conclusion? rather an introduction:

➤To a large and ambitious programme, close to the industrial applications, which has just started

➢To a « green » ambition that must be preserved despite the economical contingencies that will occur during a 7 years programme

➢To a new way of managing research as a PPP, which means fulfilling transparency, fairness and effectiveness requirements

Clean Sky will be deemed a success if and when the technologies demonstrated will fly as commercial products



