

# GKN Aerospace Sweden AB in Clean Sky and Clean Sky 2

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# GKN in Clean Sky

GKN is Associate in SAGE (Sustainable and Green Engines)

- > Strategic partner for the whole project



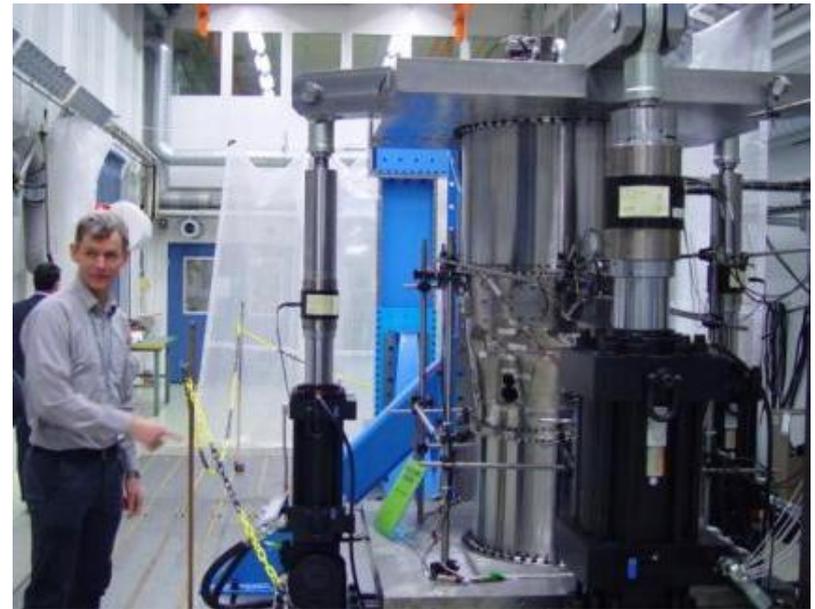
## Engine demonstrators

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# GKN in Clean Sky - SAGE

## GKN responsibility

- > SAGE2 (Snecma lead) – Rotating frames for Open Rotor engine demonstrator
- > SAGE3 (Rolls-Royce lead) – Intermediate Compressor Case (ICC) for 3-shaft engine demonstrator
- > SAGE4 (MTU lead) – Turbine structure for Geared TurboFan engine demonstrator



**SAGE 3 ICC testing**

# GKN CfP topics

- > HITECAST – HT superalloy casting 
- > HITNIFO – HT superalloy forging 
- > LEAN – steel casting (Swerea SWECAST, TPC) 
- > VIMAQ – steel sheet forming (Gestamp Hardtech) 
- > WELDMECS - modeling of weld cracking (Univ West) 
- > WELDMINDT – NDT/thermography 
- > HIMMOVAL- high material rate machining 
- > HICTAC – high temperature resin (Swerea SICOMP, Nexam) 
- > HOSTEL – high temp acoustic panels (Creo Dynamics, KTH) 
- > GOTA – high temp Ti alloy development 
- > LIFEMOD - probabilistic lifing method (Swerea KIMAB, SP) 
- > FAMEC – mechanical testing of HT Ni-alloy (Swerea KIMAB)  
- > GEOVAR – geometry assurance simulation (Chalmers) 

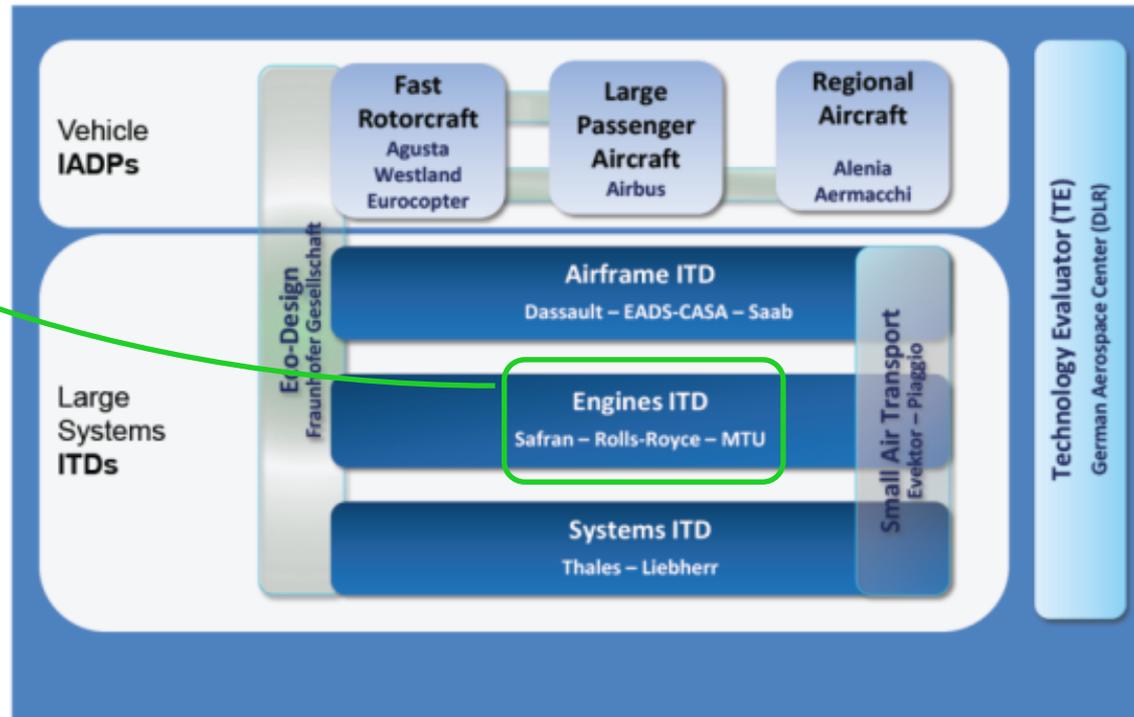


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# Clean Sky 2

## GKN will apply for Core Partnership (CoP) in Engines ITD

- Strategic partner for the whole project
- Call 1 closes 15 October
- Call 2 closes May 2015



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