



**L.K. Engineering, s.r.o.**

## Company presentation – Technical Analyses

Radek LEKES Ph.D.

October 19, 2012

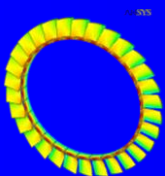
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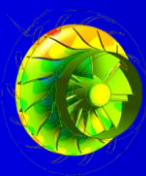
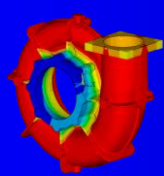
### LKE - Basic Information



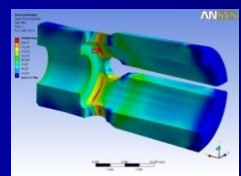
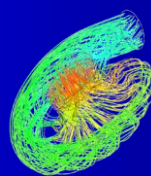
- L.K. Engineering, s.r.o. (LKE) is an engineering company providing service in areas of analysis and design of various components
- LKE supports customers from various fields of industry in development, innovation or problem solving phases of their products
- 16 years of experience in industry cooperation



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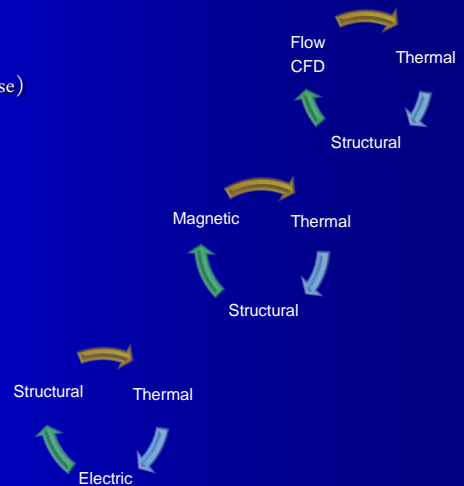


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## Technical Disciplines

LKE--

- Static linear/non-linear structural analysis
- Dynamic analysis (modal, harmonic, random, transient response)
- Thermal analyses static/transient
- CFD RANS analysis of external configuration
- FSI (Fluid Structure Interaction)
- Acoustics/vibroacoustics
- External flow in civil engineering



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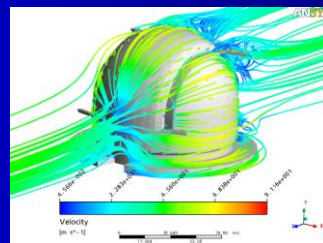
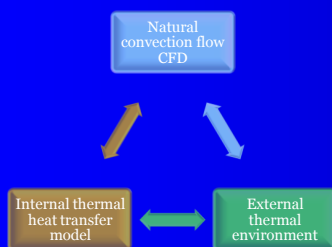
## E-ELT FEED study analyses

LKE--

- Simulation of internal heat transfer and Air flow inside the dome and telescope
- Dome external Air-flow evaluation and load calculation
- Detailed design of dome configuration

Thermal stability inside the dome

External flow around dome



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