

CRC CI RESEARCH CONFERENCE 2003

“ARUP’S RESEARCH NEEDS”

ARUP

- Large independent consulting engineering group
- 6000 people worldwide
- All aspects of the Built Environment
- Design, innovation, meeting technical challenges



ARUP R&D

Explicit Research

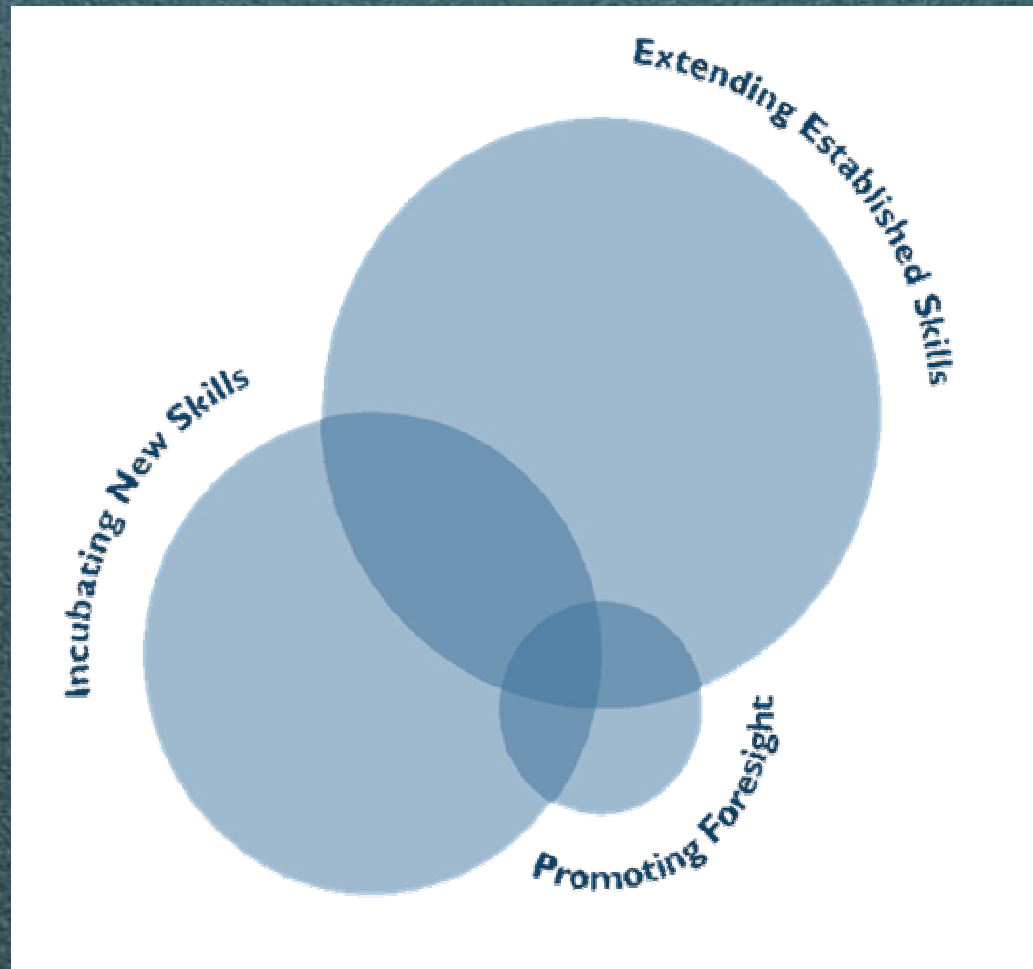
- 60 people in ARD Group, serving
 - external clients
 - internal clients
- DTF, BIF, DIF - \$A25M pa
- Collaborations

Implicit Research

- Project-based

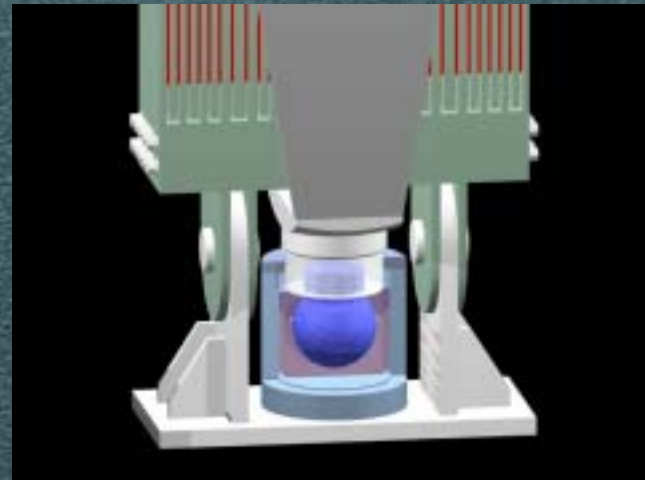


What to Spend it on? (including collaborations)

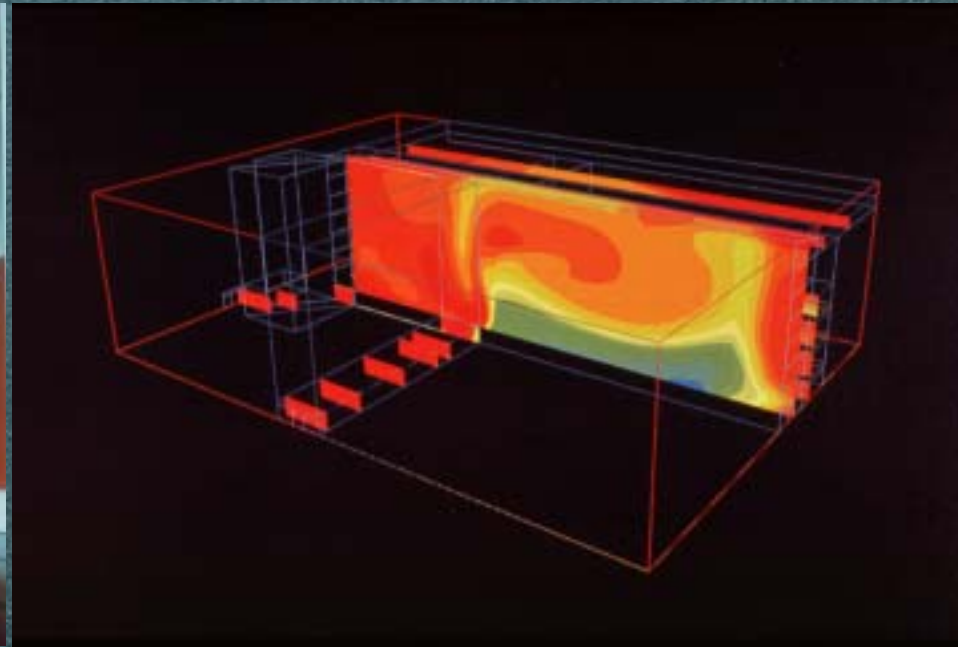


Extending Established Skills

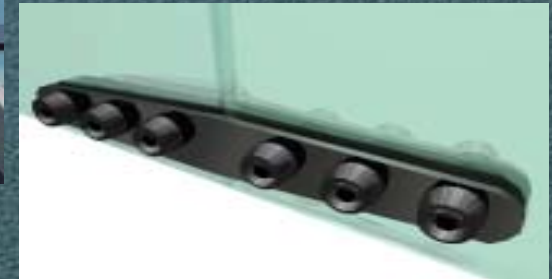
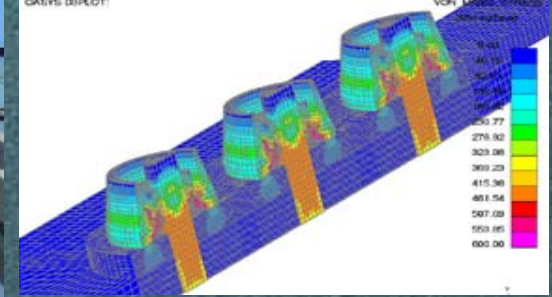
- **Structural**
- **MEP**
- **Materials Science**
- **Geotechnics**
- **Transportation Planning**
- **Façade Engineering**
- **Acoustics**



Base Isolation Systems



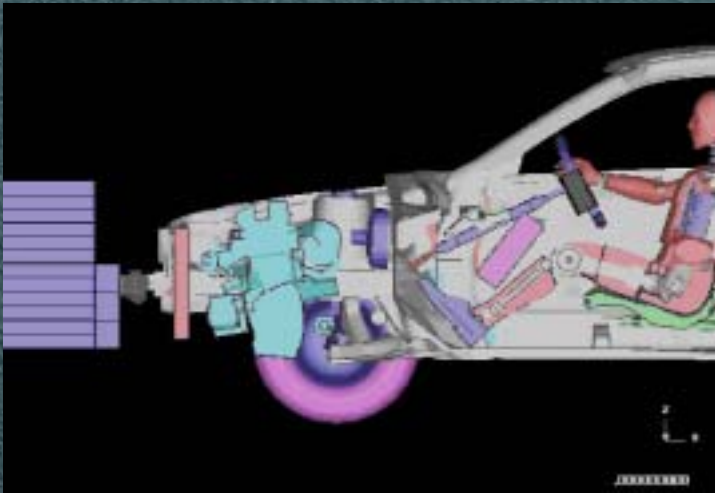
Under-Floor Air Supply Systems



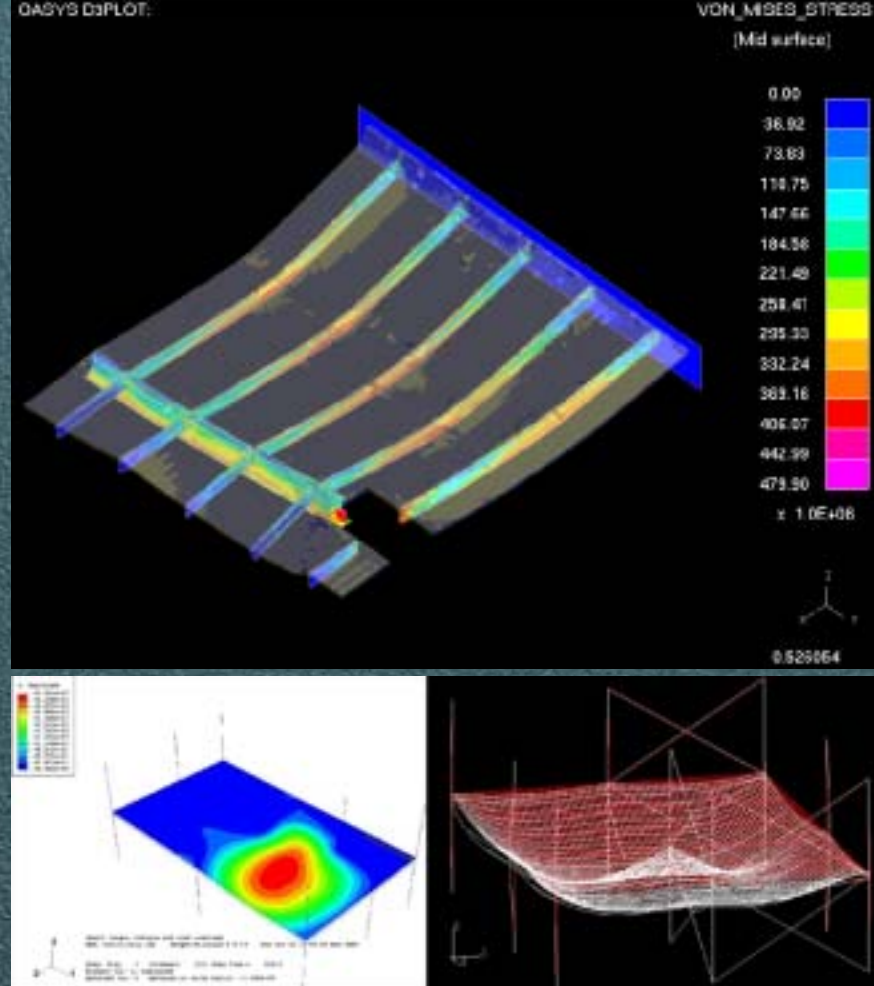
Façade Engineering

Incubating New Skills

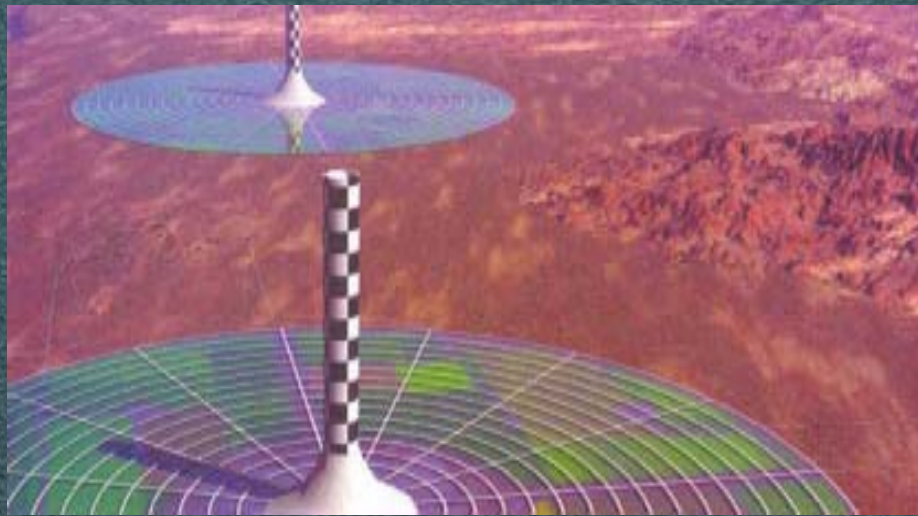
- **Building Physics**
- **Vehicle Design**
- **Fire Modelling**
- **Product Design**
- **Renewable Energy**



Vehicle Design



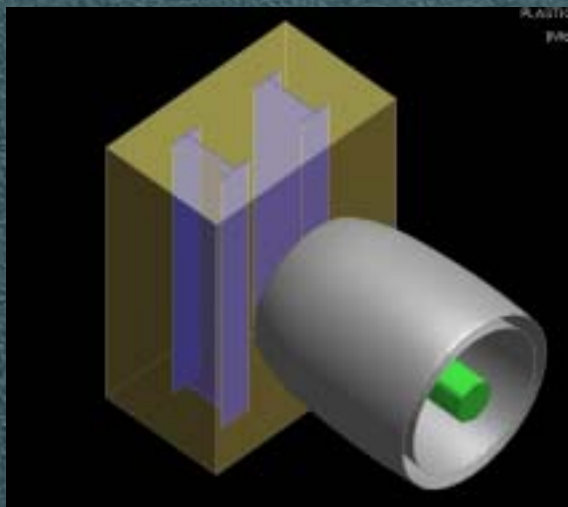
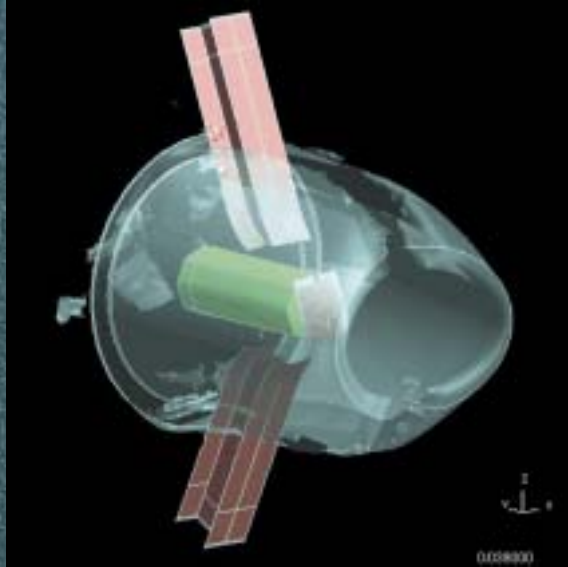
Fire Modelling



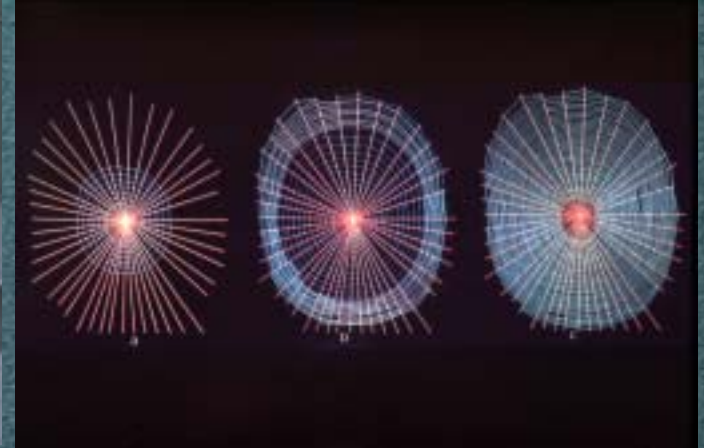
Renewable Power

Promoting Foresight

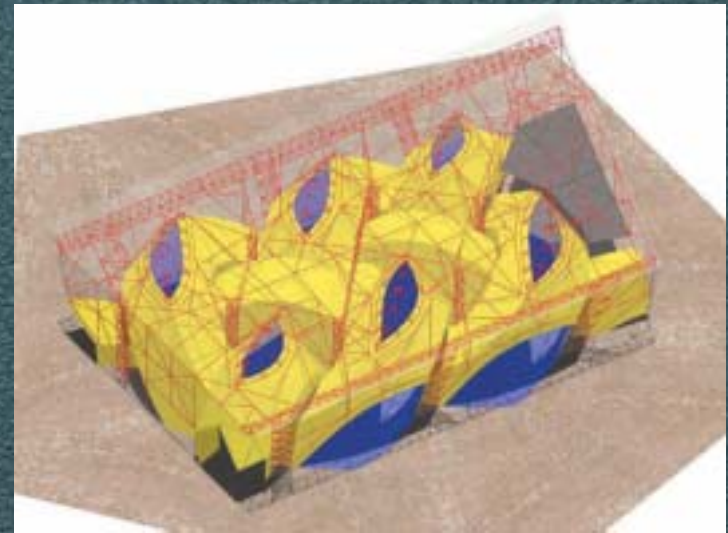
- Risk / Robustness / Security
- Workplace of the Future
- Biomimicry
- 3D CAD / Virtual Environments
- Corporate Consulting



Risk / Robustness



Biomimicry



3D CAD / uses of IT

....Product Research / Process Research...

