



# SBIR TPOC Experiences

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2 June 2009



# My Research Universe

- Large prime contracts producing prototype HEL weapons (ABL, ATL)
  - Major Lab Demos (DLWS)
  - DARPA Problems (ABC)
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- HEL-JTO
  - AFOSR
  - AFRL BAA's
  - SBIR's
- Integrated Systems
- Focused Topic Areas

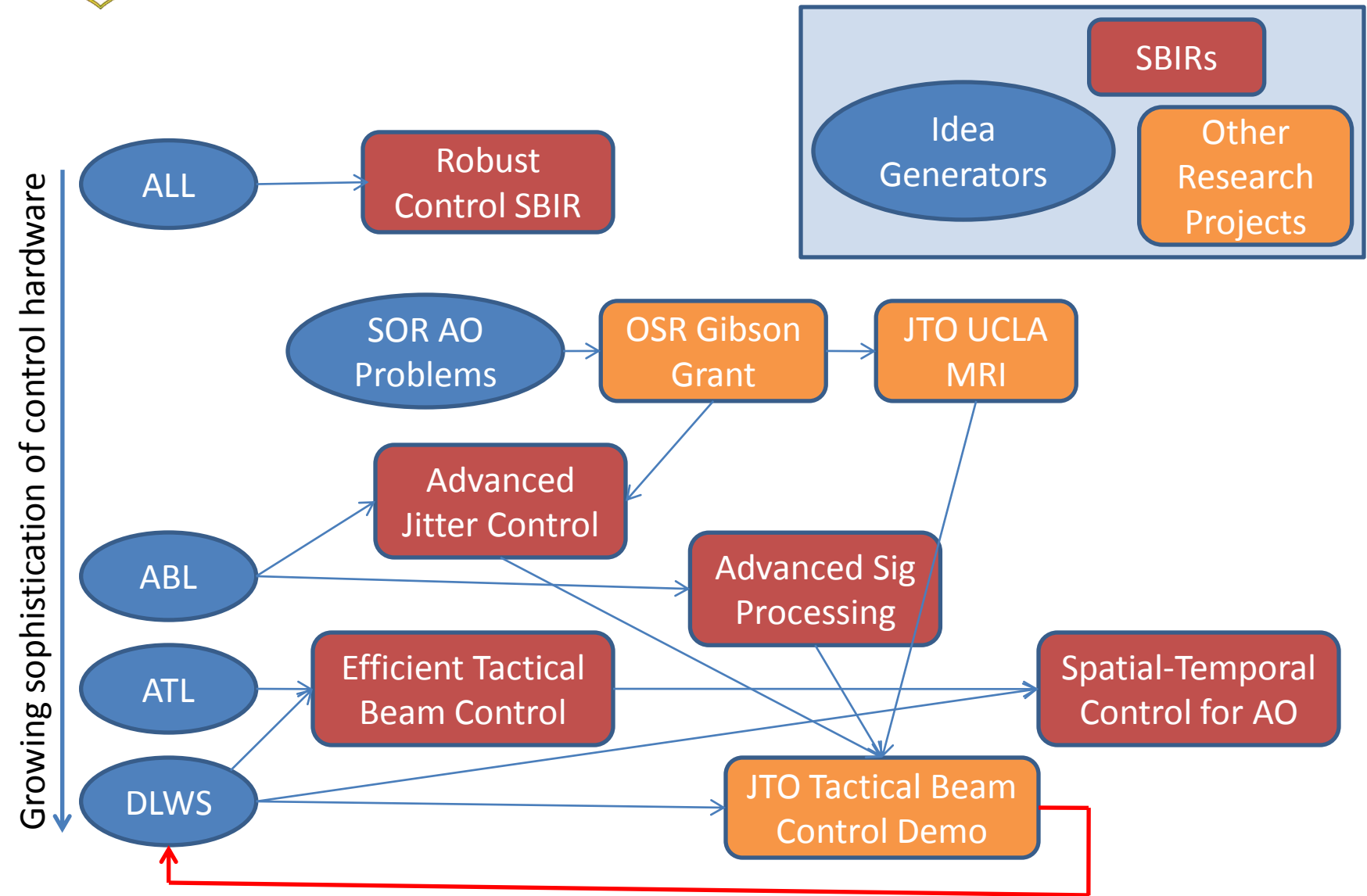


# 14 TPOC Experiences

- ~1983 “Robust Beam Control” 1 contract spawned by AFWL/ALL
- ABL spawned SBIR topics
  - Kilohertz FSM - 2 MDA Phase I’s concluded
  - Advanced Jitter Control - led to 2 MDA Phase II’s
  - Advanced Signal Processing for Disturbance Source Identification - 2 AFRL Phase I’s ongoing
- Efficient Tactical Beam Control - led to 2 AFRL Phase II’s w/ 1 \$500K enhancement
- Deep turbulence propagation measurement - 3 AFRL Phase I’s
- Space Qualified FSM – 1 MDA Phase I ongoing
- Spatial-Temporal Control for Aero-optics AO - future AFRL topic



# Idea Flow





# Conclusions

- SBIRs are motivated by and fit in with larger mission
- SBIRs play with other topic research efforts
- There is sometimes a torturous path leading to impacting integrated projects