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Summary of GSAW 2001 Plenary Sessions



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Strong messages



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- **Change (during system development) happens**
 - **get over it!**
- **Change is happening in space**
 - **don't get run over by it!**
- **Product line approach is working**
 - **get behind it!**
- **Web is changing the space business**
 - **get used to it!**
- **Vulnerability and security are big problems**
 - **get on it!**
- **Java is great**
 - **get with it dude!**



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Success stories



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- **Product line Hall of Fame**
- **Java and associated technologies**



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Progress being made



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- **Quantifying the effect (cost and benefits) of using COTS**
 - **Need to understand business models**
 - **Empirical methods**
- **Developing standards that improve interoperability**
- **Exploring “commercialization”**



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New themes



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- **Security and vulnerability**
 - Down-side of integration and interoperability and systems of systems
 - A return to “autonomy” (stovepipes)
 - Use of internet, and consumer-grade technologies
 - Security as a product line inhibitor
- **People Challenges**
 - How to re-instill creativity?
 - How to make ground/space systems “cool”?
 - How to hire/retain talented people?



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Connections to explore?



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- **Do the changes in the space business offer an opportunity for change?**
- **Architecture and CMM-i**
- **The role of Open Source**



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Fading issues



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- **Architectural description methods**
- **Architectural analysis**
- **Architectural mismatches as the source of system breakage**



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New terms & quotable quotes



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- **Fuzifying**
- **Just in time everything**
- **Nobody ever thinks about security**
- **If you want it bad, you'll get it bad. If you want it REALLY bad, you'll get it REALLY bad.**
- **Government pays us to re-invent the wheel**
- **There are no technical solutions to political problems + a lot of our challenges are political**
- **Everyone is special - *get over it!***