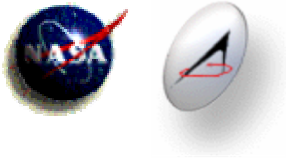


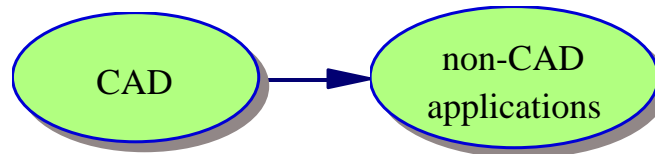
Web3D Consortium CAD3D Working Group

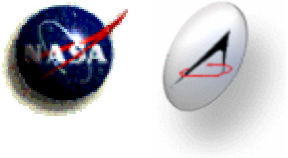
Julian E Gómez
Research Institute for
Advanced Computer Science
jgomez@mail.arc.nasa.gov



CAD data repurposing

- High cost of repurposing
 - Vendor proprietary formats
 - Process not scalable
- Complex interchange standards

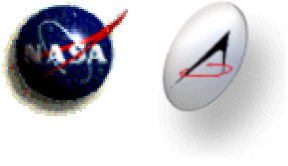




CWG Solution

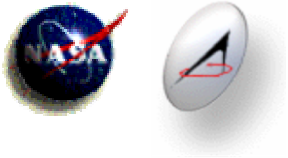
- CAD Distillation Format (CDF)
- CDF is not just a file format, it's a process

<http://www.web3d.org/applications/cad/index.html>



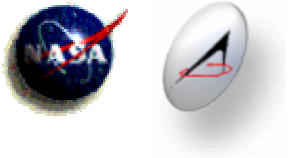
Key Points

- Distills high complexity data to low complexity
- Low cost of adoption – royalty free
- Extensible, open technology leveraged from open technology
- Communication channel between projects/programs
- XML technology integrates seamlessly with enterprise



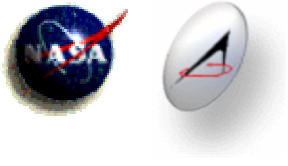
Importance to VIB and NASA

- Enables reuse of CAD and 3D assets
- Lowers cost of acquiring “good” data
- Promotes federation
- XML technology integrates with ECS



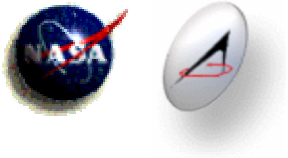
Adoption

- Applicability of “CDF” name
- Customers
- Vendors
- SDK



Legalities

- Digital Rights Management (DRM)
 - Enabled by XML standards
 - Follows W3C recommendations
- IP policy
 - Royalty free technologies only



Future Issues

- NURBS
- Animation