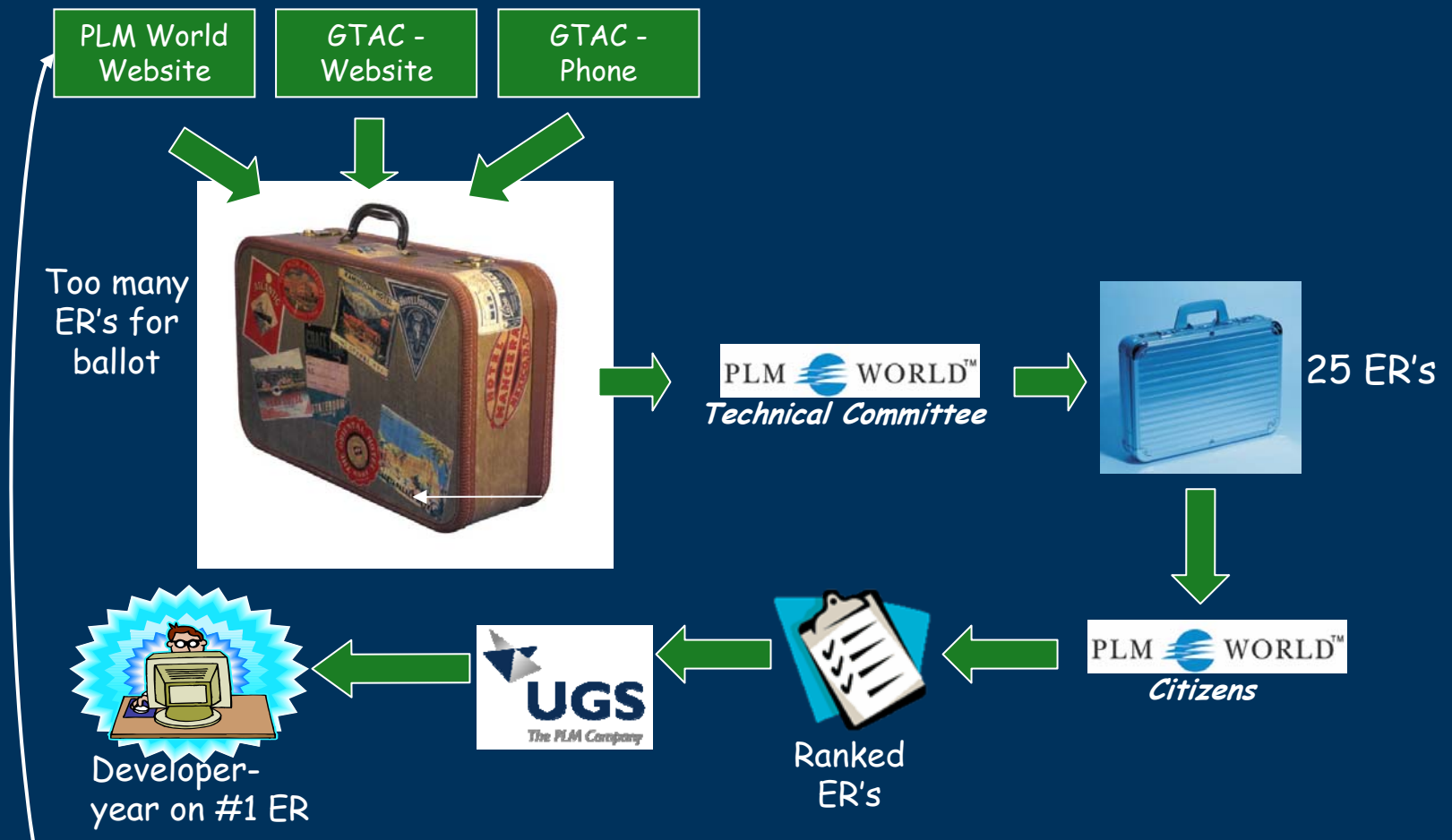
CIP Design Review

Jeff Kuberka
Design & Assembly SIG Chair
kabooky@comcast.net

Derek England
Product Manager, NX Design
derek.england@ugs.com

© UGS Corp. 2005. All rights reserved.

Overview of the CIP Process



Best chance of an ER making it on the ballot and into UG NX

© UGS Corp. 2005. All rights reserved.

2005 CIP Top Ten Requests

1. Associative sketcher dimensions
2. Reorder components in assembly navigator
3. Tangent to 3 surface blend
4. Irregular instance arrays patterns
5. Boolean a body into multiple bodies
6. Enhance usability of form features
7. Improve update control
8. Enhance Face Blend: variable radius usability
9. Associative body arrays / patterns
10. Improve interaction for dimensioning to center of circle

© UGS Corp. 2005. All rights reserved.

2004 CIP Top Ten Requests

1. Holes on non-planar surfaces
2. Trim / Boolean a body into multiple bodies
3. Tangent to 3 surface blend
4. Irregular instance array patterns
5. ~~Associative wireframe offset within a sketch~~
6. Dynamic Part Attributes
7. Reorder components in Assembly Navigator
8. ~~Multiple bodies result from a single extrude feature~~
9. ~~Datum Plane – method to define between 2 planes~~
10. Associative Body Array

© UGS Corp. 2005. All rights reserved.

2003 CIP Top Ten Requests

1. ~~Modeling of Wireframe text~~
2. Holes in non-planar surfaces
3. Tangent to 3 surface blend
4. ~~Feature creation (holes, slots, etc.) through multiple bodies (partial, NX 3 - supports ability to perform assembly level cutout through multiple assembly components)~~
5. Expressions Editor available in Sketch Task Environment
6. ~~Measures during feature creation~~
7. ~~Smart Points in modeling (does not include Point Set)~~
8. Irregular instance arrays
9. Local option for trimming bodies
10. Reorder components in Assembly Navigator

© UGS Corp. 2005. All rights reserved.

2001 / 2002 CIP Top Ten Requests

1. ~~Saving the high-level assembly saves modified components with warning (can save work part only)~~
2. Holes in non-planar surfaces
3. Allow user to choose trim when multiple intersections exist
4. ~~Taper for castings~~
5. Standard dimensions for feature parameters
6. Define parametric point set
7. Ability to move sketch objects from one sketch to another
8. ~~Transform features associatively~~
9. Reorder components within ANT structure
10. Choice of solution when trimming bodies

© UGS Corp. 2005. All rights reserved.

2000 CIP Top Ten Requests

1. ~~Ability to keep tool solid to be used elsewhere on a part~~
2. ~~Remove component from ANT~~
3. ~~Saving high level assembly saves all modified components without warning (delivered – can save work part only)~~
4. Standard dimensions for feature parameters
5. ~~Allow editing of sketch dimensions from Sketch Tools vs. constraints (delivered)~~
6. Allow user to choose trim when multiple intersections exist (open)
7. ~~Enhance datum plane, edit capability~~
8. Transform with associativity
9. ~~Load meter for loading parts~~
10. ~~General equations in sketcher~~

© UGS Corp. 2005. All rights reserved.

Thank you for your participation

Jeff Kuberka – kabooky@comcast.net
Derek England – derek.england@ugs.com

© UGS Corp. 2005. All rights reserved.