



Benefits of GUI & SOA - Not-quantifiable Functional • Flexible inquiries are easier to use • Easier integration with personal productivity tools AppServer[™] allows for better scalability • Newer technologies will always be GUI · Future projects will require less training Organizational **BRENNTAG** Benefits of GUI & SOA - quantifiable Easier translation (multiple languages) Easier maintenance Easier navigation for Data Entry Integration with business partners easier **BRENNTAG** Agenda Overview of Brenntag Modernization of IT system landscape The Transformation Project Estimating the transformation effort Status Today and Lessons Learned

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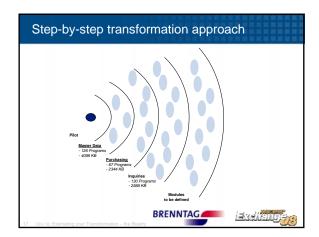
The Progress Application Before: Phoenix · Character UI on DG/UX platform • 3 versions to support 3 languages After: Falcon • GUI Client/Server - OpenEdge® 10.1B • 1 Version with multiple languages Timetable • 15 - 18 month transformation • 18 - 24 month for roll-out to the countries BRENNTAG ⊒यसीमाहि Transformation project Project steps 1. Pre-Study Progress/Brenntag 2. Pilot-Project: Transformation of Sales Order Entry Module (Coached by Senior Progress Professional) 3. Roll-out of Pilot System to one region Cooperation with Progress offshore team (Argentina) Identification and prioritization of next modules Step-by-step transformation Roll-out of transformed modules as soon as possible **BRENNTAG** isudibile Pre-study of Progress ERP Transformation Progress Professional Services & Brenntag Analyze Application 4 weeks • Consider # of programs (> 2,000) Consider # of tables (>150) and fields (>3,000) Functionality scope Architecture of code Estimate as result of pre-study: Total transformation effort ca. 6 man years

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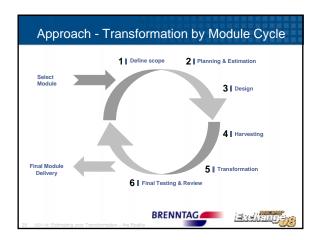
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Transformation approach Recommendations from pre-study Re-design user interface to make full use of GUI capabilities Use ProDataSets to fully separate business logic from functionality and physical storage Validate data input after submitting transaction (not on field level) "Optimistic" locking Don't use shared variables

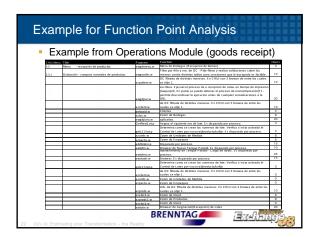
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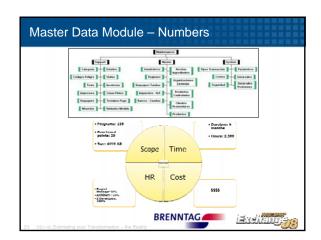


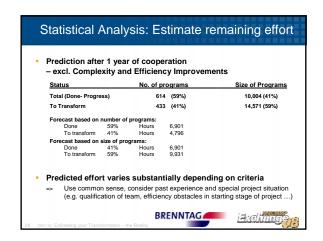
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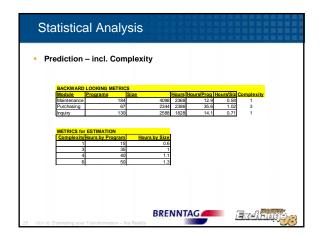


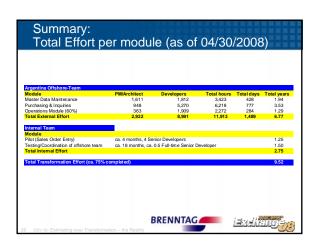
Planning & Estimation: Function point analysis Steps in Function point analysis Design document with all programs to be transformed (options in CHUI menu) List of all tables used, by program Identify function points (business view of programs to be transformed) Re-design of functional areas to take advantage of GUI functionalities Estimate transformation effort for each function point based on new design













Application Status Today • First roll-out: Completed Pilot • 3 modules from Argentina Operations module in progress Currently in Month 18 • Behind schedule - had hoped to have transformation completed by now **BRENNTAG** Development Teams - Status Today Internal team • Internal development & maintenance · Not working on transformation Latin American team · Increased size of team · All working on transformation isuditiit BRENNTAG Lessons Learned – SOA Transformation Supported by a Senior Coach who has done it before Training is not enough Module-wise transformation approach improves manageability of project · Timelines & budgets Transformation and re-design of application co-mingled Client/Server Paradigm shift is quite extensive It always takes more effort than you think initially Harvesting is not as easy as you expect

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Keep face-to-face contact with your outsourcing partners Outsourcing works best on mid/long-term relationships External and internal team should work on the same platform BRENNTAG BRENTAG BRENNTAG BRENTAG BR



Relevant Exchange Sessions SOA-26: Practical Approaches to Implementing a Service Oriented Architecture DEV-37: Composite MVP – Building Blocks in Presentation Layer

Thank You	
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