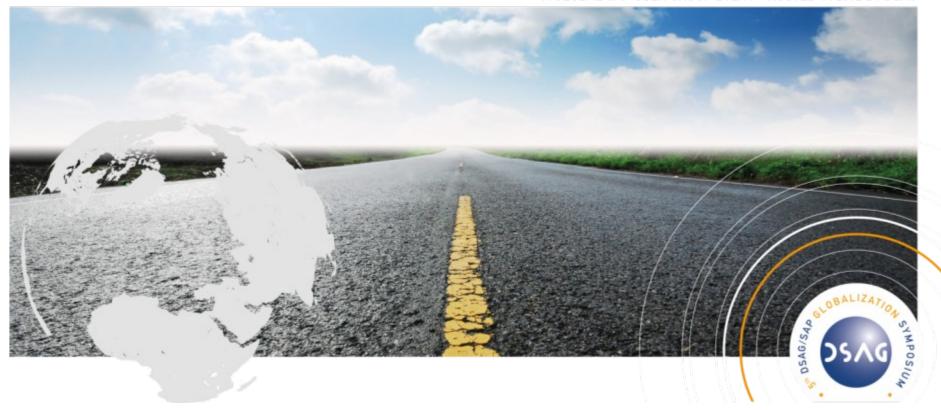
5TH DSAG/SAP GLOBALIZATION SYMPOSIUM 2012

A GLOBAL SAP USER GROUP EVENT – HOSTED IN 2012 BY DSAG



Applying Critical Success Factors to Predict Failure of Global ERP Programmes – the Case of a Swiss Company in the Pharmaceutical Sector

POGS / University of St. Gallen Dr. Gunter E. Seidel

Agenda



- Presentation of the Researcher
- Challenges of global ERP programmes
- Assessment Method
- The case of a Swiss company in the Pharmaceutical sector





Presentation of the Researcher



Dr. Gunter E. Seidel has 15 years consulting experience in the IT sector

Education & Professional Organisations

- Diploma in Computer Science from TU Berlin with exchange year at the University of York
- MBA from IESE in Barcelona, including a Management of Technology certificate obtained in Berkeley, USA
- Conducted a phd thesis at University St. Gallen, topic was "Assessment Method for the Burnout likelihood of global EPR-Programmes"
- Spokesperson of the workgroup Global Roll-out & Project Management of the German Speaking SAP User Group (DSAG)

Project Experience (selected examples)

- Program office for the set-up of an Europe-wide SAP solution over the full project life cycle including business case development, board approval, vendor selection, contract negotiation, on-boarding of system integration, blueprint, development, hosting set-up, roll-out, post-go-live support, and handover to ongoing application maintenance service
- Request for Proposal (RfP) for an SAP based business warehouse to track costs and revenues based on medical cases (DRG) rather than utilization
- Program management of an initiative to centralize the financial flows associated with the handling of direct (production) materials involving three European countries
- Review of an SAP programme in the middle of the roll-out sequence to establish an independent view on the effort to completion
- Process design work for Software Engineering, Requirements Management and CRM processes
- Interim Management position as CIO in a leading publisher





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Results of global ERP implementations leave room for improvements

Based on classical project measures results are often unsatisfactory

- Budget overruns, mostly due to excessive scope change requests
- Missed implementation dates
- Cancelled ERP projects with substantial sunk costs

But the gap in functional requirements is often even worse

- User satisfaction drops after ERP implementation ("... we had a better (local) solution for this before ...")
- Business disruption due to insufficient testing and training
- Organizational Change resistance has not been handled at all, leading to defensiveness against the new ERP system







These problems are often created from the beginning of the programme

- Many ERP programmes suffer weaknesses from the set-up of the programme onwards
- Senior Management often lack an understanding on the stress a global ERP programme puts on the organisation:
 - While financial impact can be estimated relatively accurately, the requirements on the best skilled resources and the management attention often gets underestimated
 - Organisational readiness is seldom assessed to start specific activities to prepare the organisation beyond functional trainings
 - Too much thought is spend on technical implementation questions leading to a delegation of the whole programme from a CEO to an IT level
 - The methods deployed are not aligned to project objectives, but put into the hands of system integrators or package providers
 - Objectives of the ERP project are poorly aligned to company culture and market requirements
- Only alignment of all aspects ensure proper ERP programme execution







Only when environmental, resource-related and methodological factors are aligned to objectives, ERP programmes are successful

Environmental

Who?

- Markets & business cultures
- ▶ Resistance to change
- ▶ (In-)flexibility
- Innovation potential

With which?

Programme Objectives

- Degree of centralization, process standardization and package use
- Instance and maintenance strate
- Implementation time
- Acceptance within the company

Model of success probability

(On-time, In-budget, In-scope)

Resource-related

- Funding
- Human resources
- Management attention

Methodological

- ▶ Localization common template in tax, legal, customs
- Change approach
- Governance model

How?



What?





Deutschsprachige SAP® Anwendergruppe

Clarity of the objectives drive a suitable ERP Programme set-up

Strategic Elements ERP Design Alternatives Business Strategy Decentralized Completely centralized, Degree of regional company HQ driven. Centralization holding structure single company structure Categorical use **Degree of Process** Site-specific of standard processes Business Processes Standardization processes except mandatory cases Mix of ERP core functionality Full leverage **Degree of ERP** and "Best of Breed"of package standard **Package Usage** components process model **ERP Maintenance** Decentralized Global ERP **ERP** teams Support Centre **Support Strategy** Information Systems **Instance Strategy** Multiple Instances Single Instance 8 10

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Success Factor Model



Model validated by SEM

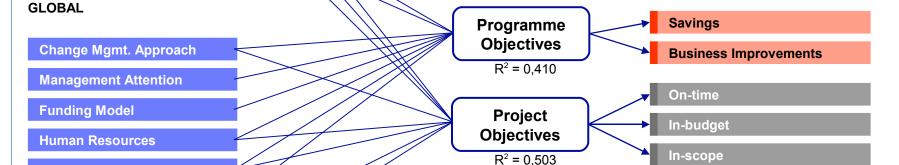
Market & Business Cultures

Unwillingness to Change

Inability to Change

Necessary preconditions

LOCAL



Method Selection

Governance Model

Tools

Technical Factors





Deutschsprachige SAP® Anwendergruppe

Quantified Impact



PARTIAL EXAMPLE

Market & Business Cultures

Unwillingness to Change

Inability to Change

Necessary preconditions

Change Mgmt. Approach

Management Attention

Funding Model

Human Resources

Governance Model

Method Selection

Tools

Technical Factors

		Impact Level		
Description	Indicators	Success Factor	Programme Objective	Project Objective
The impact of the local market and business culture has been handled adequately.	 Local process requirements addressed Intercultural work aspect handled 	0,444 0,746	n/a* ⁾	0,040
Describes the initial level of resistance to change of a site and the measures addressing it.	Initial level is low Is handled adequately	0,107 0,978	n/a* ⁾	0,179
Describes limitations in the ability of people to embrace the changes.	Language abilitiesInnovation PotentialInflexibility	0,342 0,760 0,327	0,049	0,164
The site suitable for a roll-out.	 Suitable size & business model Technology life cycle Resource availability 	0,438 n/a*) 0,793	0,188	n/a*)

Note: (*) Data Points not admissible due to sample size constraints





Assessment Method



This forms the basis of the assessment method for global ERP programmes (value preposition)

- Empirically founded assessment method <u>based on 80+ ERP programmes</u>
- Predictive assessment
 - Can be used in <u>late set-up or blueprint phase</u> of the ERP programmes
 - Generates a forecast on programme success
- Actionable results
 - <u>Success Probability Forecast</u> devised on Programme Objectives (Business Improvements, Savings) and Project Objectives (On-time, In-budget, In-scope)
 - Specific recommendation on <u>40+ success indicators</u>
- Applicability
 - Programmes with global foot print
 - Process driven transformation programmes based on package software as ERP





Assessment Method



This forms the basis of the assessment method for global ERP programmes (operational)

Procedure

- Analysis of the global ERP programme objectives
 - Open Senior Management interviews
 - Interviewees: CEO, CFO, CIO
 - Based on Design Alternatives
- Analysis of central project set-up
 - Closed Project Team Interviews
 - Interviewees: Project Manager, Module leader, Application Manager, Infrastructure Manager
 - Based on Questionnaire
- ▶ Analysis of top 3 5 roll-out locations
 - Closed Site Interviews
 - Interviewees: Site Manager, Local IT Manager,
 2 3 functional department manager

Results

- Provides an early view on programmes in their set-up stage
- Assessment of the project specific critical ERP success factors
- Overall success prediction of the Global ERP Programme, distinguished by
 - Project success indicators (time, scope, budget)
 - Programme success (long term savings & business improvements)
 - Site readiness
- Results based on empirical research on about 80 global ERP programmes
- ▶ Recommendation for areas of improvements



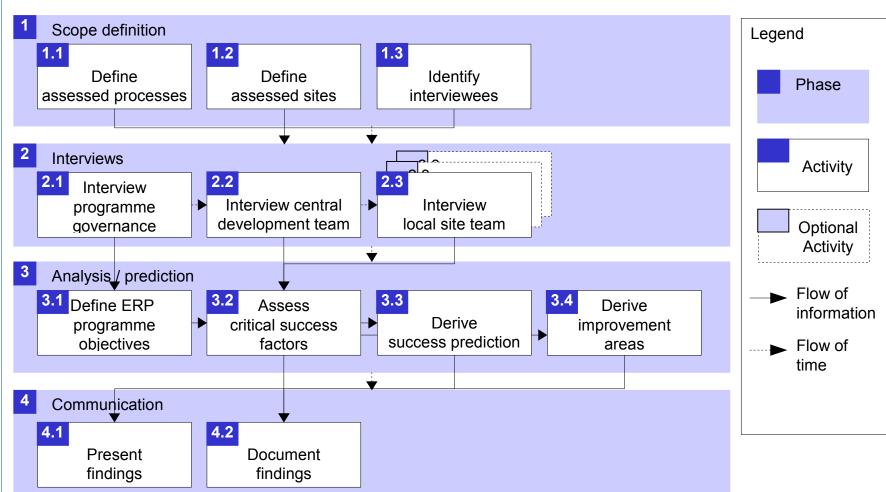
Overall effort & duration: 20 - 60 person days in 4 - 6 weeks.





Assessment Procedure









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The Case of a Swiss Company in the Pharmaceutical Sector



Situation of the Company

- The Company is one of the pioneers in the area of clean room equipment and isolation technology for the pharmaceutical and chemical industry
- Main production facility in Switzerland and a US subsidiary registered in Colorado, USA
- ▶ The planned ERP programme aims at the replacement of an obsolete ERP based on IBM S400 systems called DIAS
- The Company was in a conceptual phase with the objective to define the implementation approach and get an investment decision

Deployment Assessment Method

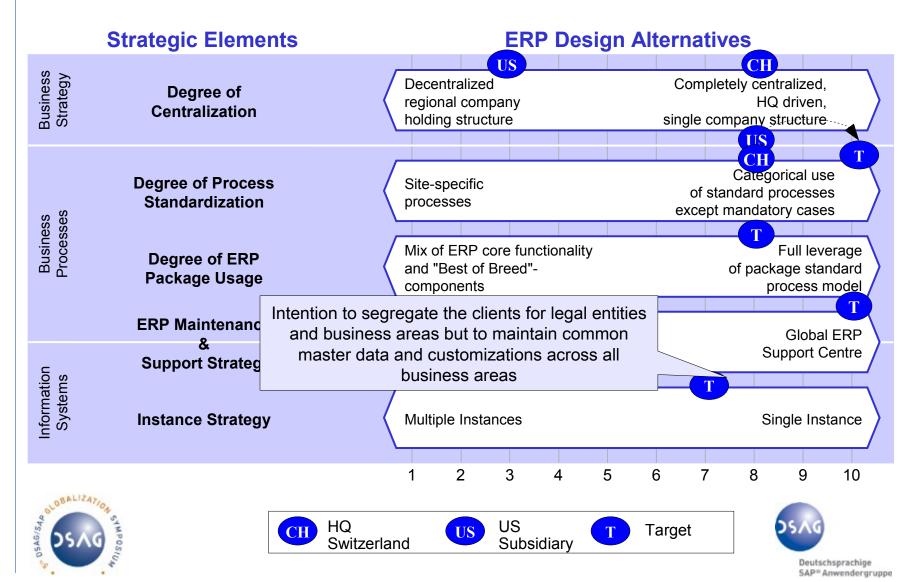
- The functional scope followed the full scope of activities of the Company. This includes trade activities, small batch and individual construction, services and spare part business and supporting functions as materials management, finance and controlling.
- Interviews of senior management, central process owners and IS managers, local senior manager and process expert executed.
- Assessment of Programme Objectives, 12 Critical Success Factors and Burn-out Likelihood of Programme and Project conducted.

Results

- While some objectives as process automation and information harmonization were commonly agreed, further unconsolidated requirements were identified
- ERP design alternatives are focussed on centralization. process standardization and adherence to package standards with centralized support of a single instance
- CSF to be improved included management attention, capturing of local process requirements and efficiency gains in ERP implementation
- Specific recommendations for next steps were made



ERP Design Alternatives



Success prediction & summary

- Overall success predictions resulted in a value for Programme Objectives of 3,428 and a value for Project Objectives of 3,567
 - These values indicate a moderate to strong prediction of success, but have limited value due to the early assessment
 - There is no discriminant value between the programme and the project, i.e. the set-up caters equally to deliver the ERP solution and generate value from it
- A few areas of concern have surfaced
 - There is no agreed definition of scope and objectives of the ERP programme
 - No structures are set-up to establish Management Attention at the beginning of the programme and maintain it throughout the lifecycle
 - Specific requirements from non-headquarters sites have not been captured, nor exist general awareness for the need of doing so
 - There are improvement opportunities in the efficiency of the ERP implementation in terms of tool support, methods employed and governance structure to be established
- The early stage of the ERP programme limits the assessment to intention in many areas





Key Take Aways

- ▶ Only when environmental, resourcerelated and methodological factors are aligned to objectives, ERP programmes are successful
- ▶ It has been empirically validated that results are driven by 8 programme-wide and 4 local Critical Success Factors
- ▶ Two to seven Management Actions to drive each success factor have been empirically established and their impact quantified
- ▶ The results are operationalized by an assessment method of success likelihood for global ERP programmes in early phases
- ▶ Results are published as a book http://www.verlagdrkovac.de/978-3-8300-4597-7



A Method for Assessing the Likelihood of Burn-out of Global ERP-Programmes



Verlag Dr. Kovač





Your Turn: Questions?



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