BCCG BOSTON CONSULTING GROUP

Problem Solving and Project Planning BCG approach and learnings

Aalto University School of Business



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Introduction: Juuso Soininen Partner at DigitalBCG



14 years at BCG, with 80+ projects planned and executed

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M.Sc. in Industrial Engineering and Management from the Helsinki University of Technology



Problem solving in a client project setting Planning projects in practice Team exercise (~20min)

We didn't do anything wrong, but somehow, we lost Stephen Elop, Nokia

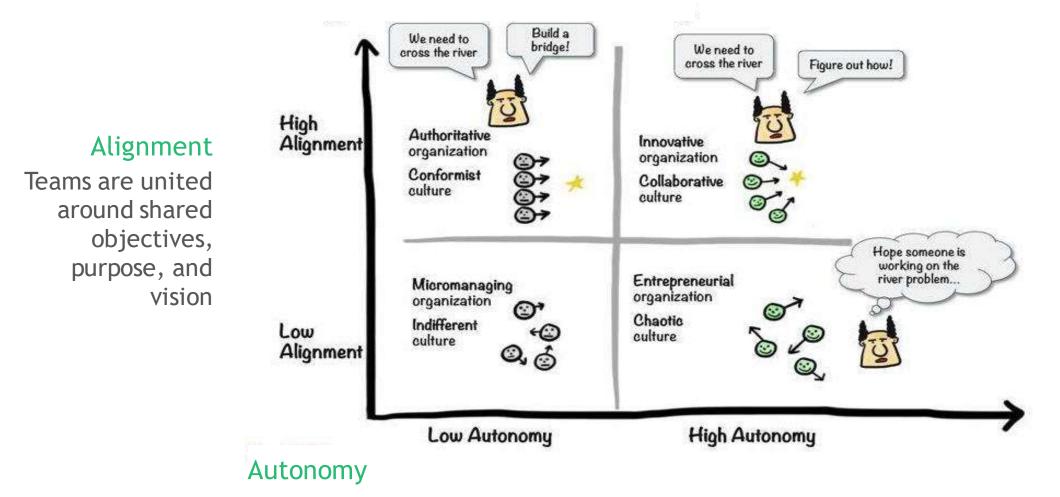
Battles fought and lost OCKBUST sears NOKIA amazon SAMSUNG NETFLIX Battles still being fought Marriott VISA HSBC 🚺 HOTELS · RESORTS · SUITES stripe TESLA airbnb **TransferWise**

Traditional approaches designed to withstand disruption waves ...

... time for a new approach

... in the 21st century's new normal, need to ride disruptive waves and adapt

Agility is a function of high autonomy and high alignment



Individuals and teams are responsible for ideas and decision making

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The Five Key BCG Success Factors for Structured Problem Solving



Define and understand the real problem (often need to understand "baseline" before solving the problem)

Your client might not (fully) know it or might not be able to articulate it without your help



Form hypotheses and solve top-down

Plan your work to the end-product



Always have an answer & communicate frequently

A clear hypothesis saves you from "boiling the ocean" ...but forming a good hypothesis requires expertise, effort and iteration Generate and structure hypotheses helps with focus Attempts to formulate the possible result of the project

Hypotheses help to be specific and focused

• Forces you to be explicit about what you expect to achieve

Hypotheses are allowed to be wrong

- Their use is to structure and focus the project
- No preclusion of the results

The hypothesis will be adapted to the findings during the project

- More and more specific
- Changing as the evidence evolves

When determining the time needed for your analyses, make sure you understand the burden of proof required

Step 1: Determine what **proof** is required

Gain alignment to the level you intend to provide supporting evidence for your recommendation

- Expert opinions
- Case studies and examples
- Samples (not significant)
- Statistics (t-test)
- Correlation (R²)
- Analytic relationships (model)

Think what burden of proof you will have to provide

- How accepting will the audience be of findings?
- Will our findings be controversial?

Step 2: Prioritize your analyses based on effort and importance

High	Possible traps	Big wins		
equired	 Is it really needed? Is there an effective alternative or analog? 	 Invest time Carefully plan Iterate 		
More Effort required	Wild shot • Give it a try • Do not waste too much time	Quick wins Go after early Use to develop view on remaining data and hypotheses 		
	Low Hi Importance to key issues			





Always have your elevator speech ready

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Problem solving in a client project setting

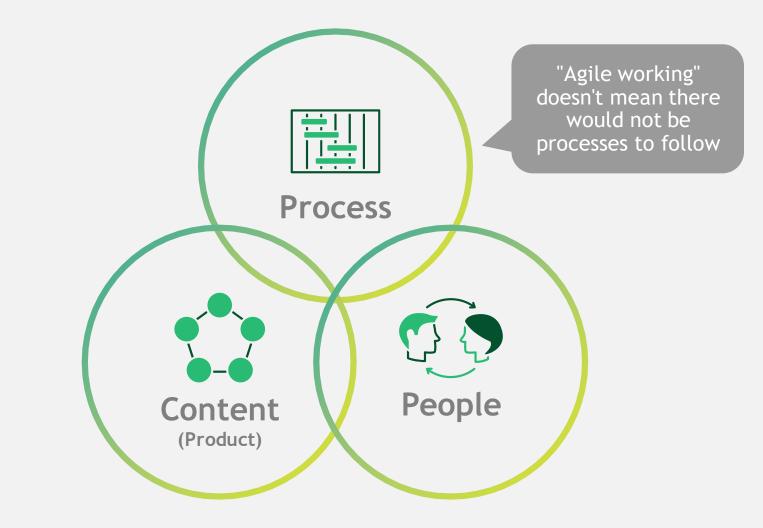
> Planning projects in practice

Team exercise (~20min)

"The best generals are those who arrive at the results of planning without being tied to plans" Winston Churchill



Successful project management means managing content, process, and people



...and you and your team members can have different preferences/values on what is the most important...



Overinvest in engaging with the client stakeholders, understand their perspectives, visions and hypothesis



Create the "strawman deck" during week 1 to visualize the key elements of output... and then iterate/fill

Practical tips for planning the project



Draft upfront the "1-slide" you will have in the end -What does my main deliverable look in practice



Plan your analyses end-to-end (who, what data, how to analyze, what output, ...), and anticipate the results



Reserve time to **iterate and anchor** the final output with stakeholders (i.e. plan for 1-2 weeks in the end)



Overinvest in engaging with the client stakeholders, understand their perspectives, visions and hypothesis

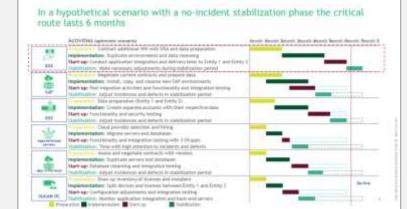
- Schedule 1-on-1 interviews with key stakeholders to understand their individual perspectives and differences of opinions
- Request walk-through sessions of existing analyses and work that already has been done
- Leverage external experts to challenge and pressure test client thinking
- ...ok to refine/adjust the project questions and hypothesis after the above

Draft the "strawman deck" and the "final 1-slide" you will need to have in the end of the project (MVP thinking)

Examples of core output slides for different types of projects







EBITDA bridge

• EBITDA bridge identifying all main value creation levers and impacts

Target operating model description

• Visualization explaining how organization could better deliver value through its operating model

Implementation timeline

• Detailed roll-out plan of recommended activities

|Engineering |mindset

Outcomes are a result of deliberate strategy and plans, clear governance, effective organization & lean processes





Clear cut governance



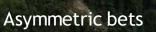
Competing on learning

Scope overlays

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Biological perspective

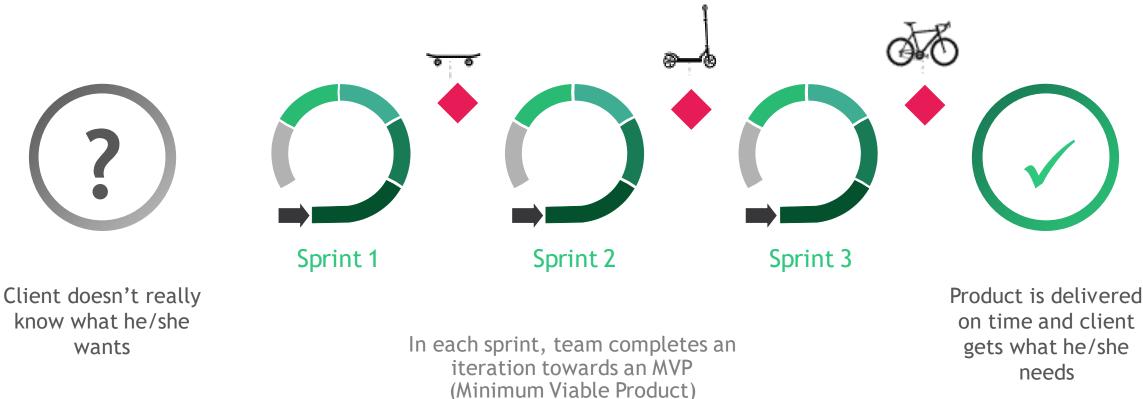
Outcomes are successful adaptation of a complex adaptive system to changes in its environment



Example of a typical project sequence (waterfall)

Phase	1 Scoping and setup	2 Diagnostics	³ Solution development	4 Validation & recommendations	
Content	 Define objectives/scope Form initial hypothesis Identify key stakeholders Collect baseline data Detail the workplan and schedule key meetings Draft output structure 	 Expert interviews, stakeholder belief audits Further data collection Perform analysis Synthesize diagnostic findings 	 Continue analysis in high- priority topics Create the solutions, e.g. in workshops Iterate and adjust solution with stakeholders 	 Get buy-in Present project conclusions and recommendations Plan and align on the next steps 	
Manage stakeholder expectations and involve them, obtain buy-in, actively communicate progress/actions				nicate progress/actions	
Output	 Detailed/realistic project plan designed Team assembled Hypotheses aligned 	 Diagnostics findings Prioritization for solution development 	 Full output report prepared Project recommendations 	 Stakeholder buy-in Next phase mobilized 	
Duration	1-2 weeks	3-4 weeks	3-4 weeks	1-2 weeks	

The Agile approach is based on iterations - A "version" of the final product exists after each iteration and gets improved/refined after each sprint



With Agile approach it would look different

Phase	1 Sprint 1	2 Sprint 2	3 Sprint 3	4 Sprint 4
Content	 Define objectives/scope Form initial hypothesis Identify key stakeholders Collect baseline data Create sprint plan and schedule key meetings Draft output structure Refine output based on new information E.g. Expert interviews, stakeholder belief audits, new data, Synthesize and plan next sprint Manage stakeholder expectations and involve them, obtain buy-in, actively communication Refine output structure 			 Refine output based on new information E.g. Expert interviews, stakeholder belief audits, new data, Synthesize the final product
Output	 First output based on initial hypothesis created Plan and prioritization for sprint 2 	 2nd version of output Plan and prioritization for sprint 3 	 3rd version of output Plan and prioritization for sprint 4 	 Final version of output
Duration	2-3 weeks	2-3 weeks	2-3 weeks	2-3 weeks



Team roles and structure

- Project leader role / team roles
- Module/analysis split with single point ownership
- Roles towards client stakeholders

Three practical topics to plan and align early in the project



Analysis plan

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- What = What questions we answer
- **How** = e.g. who to interview, what data or prerequisites should be understood, previous research, how do we analyze it
- Who = Single point ownership of deliverables



Key milestones and meetings

- Key milestones for deliverables
- Realistic schedule and timeline (incl. lead times e.g. data)
- Schedule client meetings and workshops



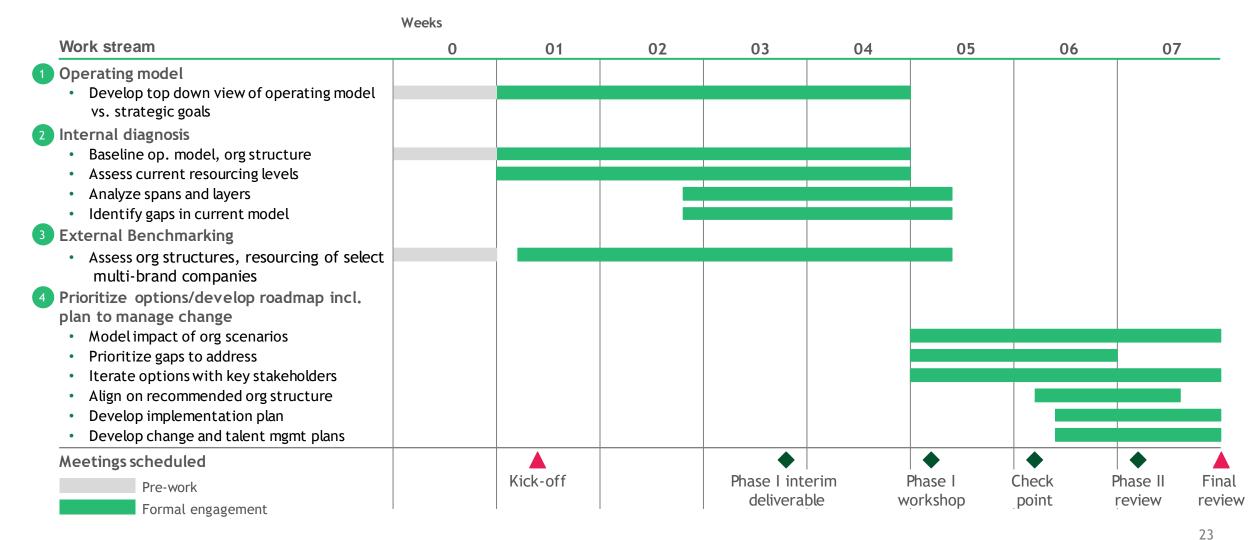
Example analysis work plan: Definition of analysis work streams - who does what and how

WHO?	WHAT?	HO	W?	
Workstream	Key questions	Activities	Data (source)	Timing
Current funding (Don, Dennis, Pete)	 How is each program and center funded? How has funding changed over the past five years? 	 Compare restricted with unrestricted funds over time Examine FFS and grants by duration/size over time Explore personal giving consistency/pareto Analyze future guarantee funding 	 Funding by program and center (Don, Dennis) Contrast durations (Pete) 	• Weeks 1-2
Outlook (Laura)	• What is the outlook for current funding sources?	 Compare health insurance provider funding trends with peers Examine trends at national, state, local levels Expert interviews and lit review on likely areas for gov't/grant cuts 	 Historical funding (gov't funding) Peer financials Qual research (gov't releases, desk research) 	• Weeks 2-4
Health care reform (Brianna)	• How will HCR impact health insurance provider?	 Expert interviews/lit review on mental health funding/relationship to primary care 	• Qualitative research (BCG experts, desk research)	• Weeks 2-4

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Example work sequencing: Project timeline and key meetings defined





Problem solving in a client project setting Planning projects in practice



Team exercise (20min)

Start planning your project: 1. Make inventory of the tasks you have identified already with your clients 2. Discuss if the identified tasks will be sufficient to solve the case? 3. Discuss next steps to form a plan and allocate responsibilities among the team

Debriefing

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(Highly recommended) next steps

1 Interact with clients and experts to gain understanding of the task

- Understand the problem and key questions ask questions, rephrase the client ask
- Map who are the key people to align with and acquire buy-in for the output
- ...if possible, meet clients a 2nd and 3rd time if needed to refine the thinking

2 Create your output 'strawman & 1-pager' based on first discussions

³ Develop a detailed project plan

- Team roles and structure
- Analysis work plan and requirements
- Schedule key meetings

4 **Do something fun together as a team** to get to know each other!

