

a step-by-step guide to creating datadriven business projects for managers

Guillaume Lecuyer & Clément Levallois



a step-by-step guide to creating datadriven business projects for managers

Guillaume Lecuyer & Clément Levallois



Saint-Etienne

by Guillaume Lecuyer and Clément Levallois

Copyright © 2018 Guillaume Lecuyer and Clément Levallois. All rights reserved.

Published by Peecho, Rokin 75-5, 1012KL Amsterdam, Netherlands

April 2018: first edition

Revision history for the first release:

2018-04-14: first release

From the same authors:

Levallois, C. et al, eds. (2015) . Twitter for Research. Ecully: EMLYON Press.

Many of the designations used by manufacturers and sellers to distinguish their products are claimed as trademarks. Where those designations appear in this book, and ExpData Press was awae of the trademark claim, the designations have been printed in caps or initial caps.

Table of Contents

1. Preface	
A guide for managers	
Benefits of the method	
2. The method	
Step 0: Defining the starting point	
Step 1: restating the strategic objectives	
Step 2: Identifying which stakeholder will be served	6
Step 3: Profiling the avatar of the target user	
Step 4: Mapping the needs of the target user	
Step 5: Listing the data sources available	
Step 6: Selecting up to 3 data sources	
step 7: Brainstorming on data x the need of the target user	
Step 8: Formalizing the value proposition	
Step 10: Graphical synthesis	20
Step 11: Memo synthesis	
Index	25

1. Preface

A guide for managers

The target reader for this book is a manager who needs to act on the imperative to "create value with data" in their organization:

- Comex members in charge of deploying the strategic vision of the CEO
- Directors of business units and functional teams who must translate the directions of the Comex into concrete business projects and perspectives for development

DATOM is a step-by-step method guiding managers from a stated strategic vision to plans for action for projects with a data-centric logic.

Benefits of the method

- Create business projects aligned with the strategic objectives of the organisation
- With precise instructions on how to include a data driven logic in the value creation process
- Graphical method, suitable for individual and team work

2. The method

Step 0: Defining the starting point

itial pitch / 4D Methodology	Date:
Our firm is In the industry of .	y of
The 2 strategic priorities as stated by our executive management are to	management are to
#1	
#2	
These sources of data:	
Ø•	
Could be leveraged to create a product or service meeting the needs of this stakehold	neeting the needs of this stakeholder
which will contribute to the fulfillment of the strategic priorities stated above.	ic priorities stated above.

Figure 1. initial pitch

© (1) (S) (O) Designed by Guillaume Lecuyer & Clément Levallois

This work is licensed under a Creative Commons Attribution-NonCommercial-NoDerivatives 4.0 International License

Step 1: restating the strategic objectives

Figure 2. restating the strategic objectives



Corporate / Support

functions

Name of the target department / user / segment:

Headquarters /

8888 !!!!!!!

Name of the target department / user / segment:



Name of the target department / user / segment:

Name of the target department / user / segment:

Figure 3. identifying the target user of the project

This work is licensed under a Creative Common

Step 3: Profiling the avatar of the target user	

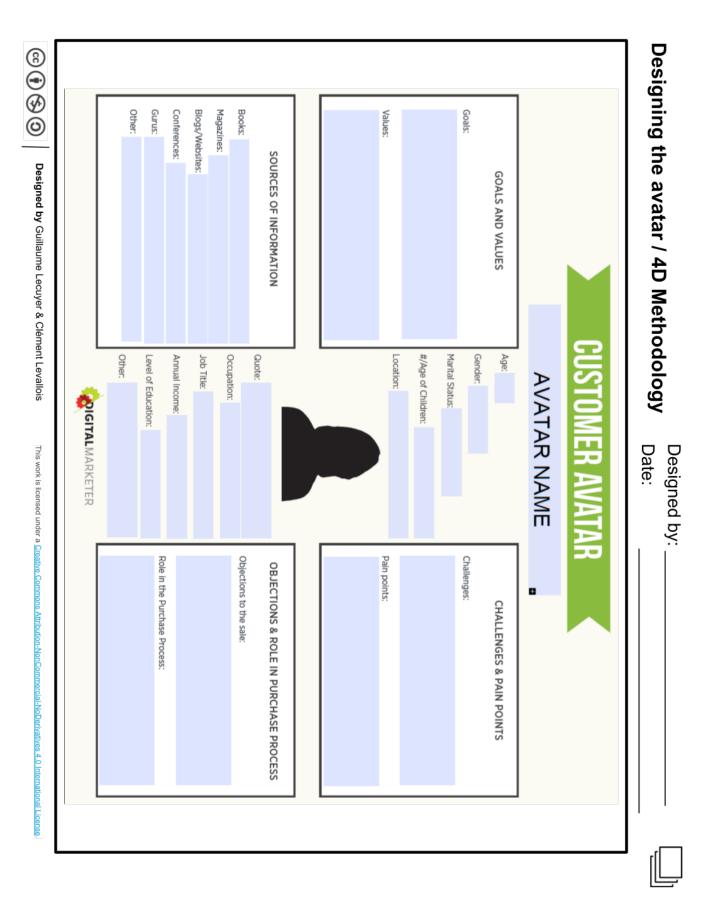


Figure 4. detailing the avatar of the target user

Step 4: Mapping the needs of the target user		

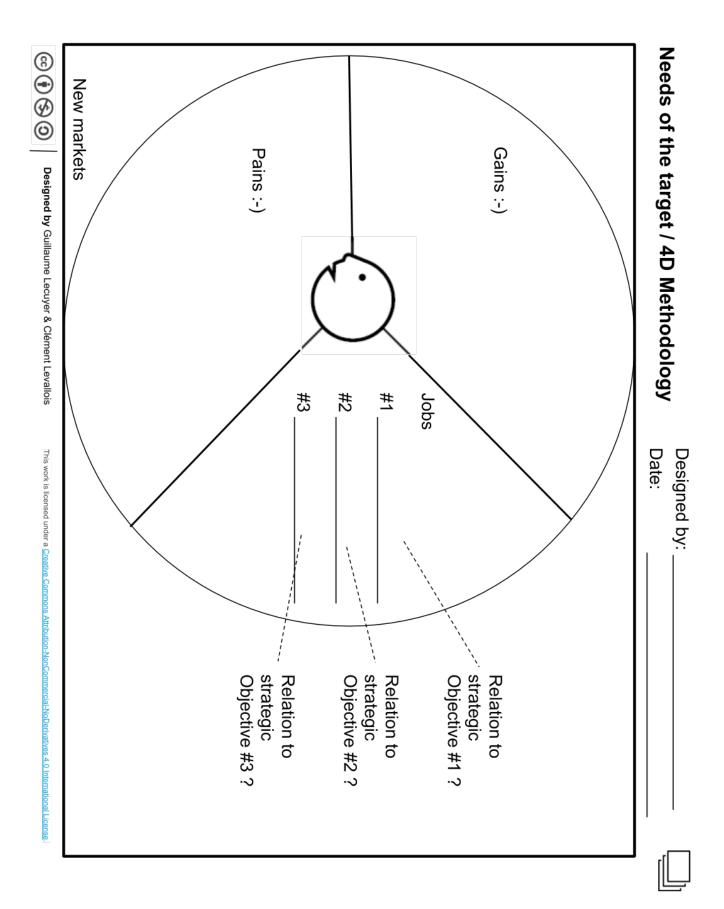


Figure 5. mapping the needs of the target user

tep 5: Listing the data sources available	

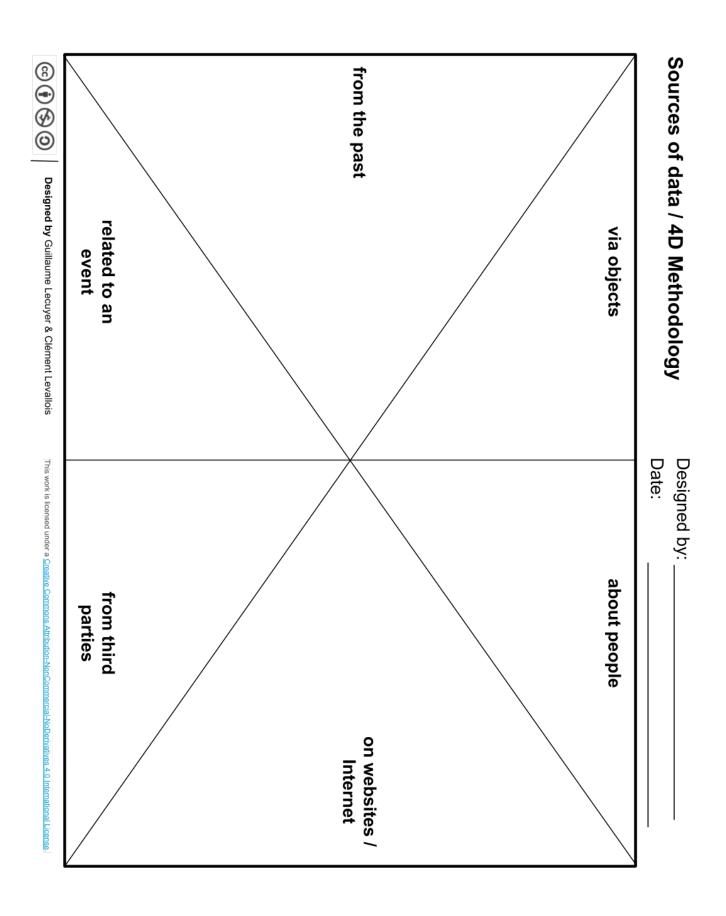


Figure 6. ideation on potential data sources

Step 6: Selecting up to 3 data sources

Explanations		ets / 4D Methodology
Dataset 1:	Date:	Designed by:
Dataset 2:		
Dataset 3:		

© (1) S (2) Desi	Complete?	Personal and sensitive data?	Time series?	Follows universal categories or is it firm specific?	Structured or not?	Machine readable?	BONUS POINTS 1 to 5 (1 = hard, 5 = easy)	
Designed by Guillaume Lecuyer & Clément Levallois	No missing records, years, values, and no errors.	Personal data comes with more constraints. Sensitive data even more.	is the data collected several times across months or years?	a dataset following INSEE or Eurostat categories is quite universal.	if the dataset is "Excel like' then it is quite structured. Free text, web pages or pictures are typically very unstructured.	if the data is in a .docx or pdf file, software can't read it. A database or even a csv file is better.	Explanations	
This work is licensed under a <u>Creative Commons</u>							Dataset 1:	
ive Commons Attribution-NonCommercial-I							Dataset 2:	
Attribution-NonCommercial-NoDerivatives 4.0 International License.							Dataset 3:	

Figure 7. detailing up to 3 data sources

step 7: Brainstorming on data x the need of the target user

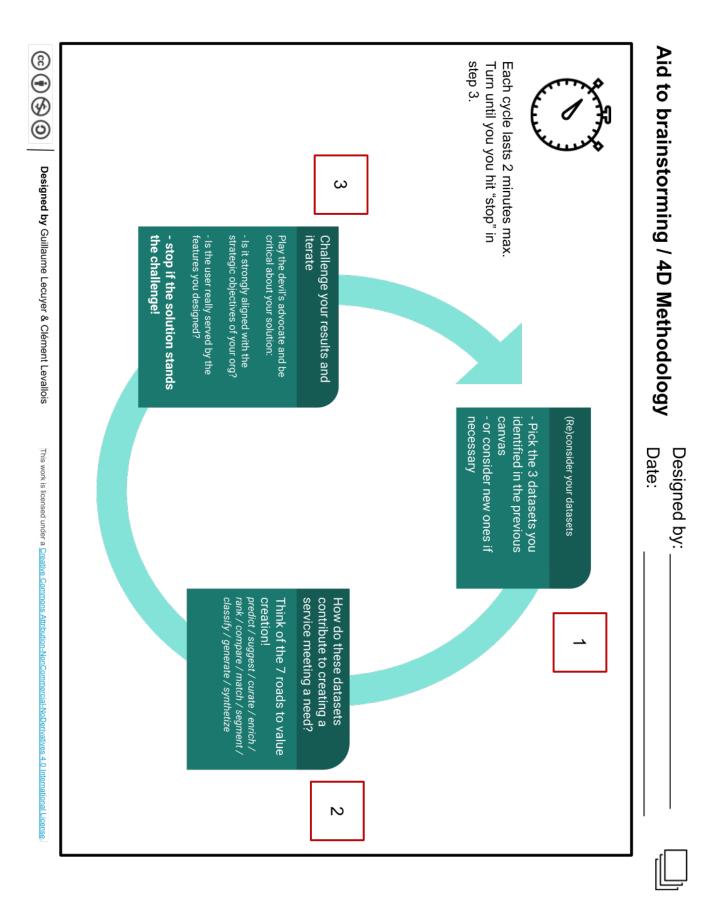


Figure 8. brainstorming on data x target user needs

Step 8: Formalizing the value proposition	

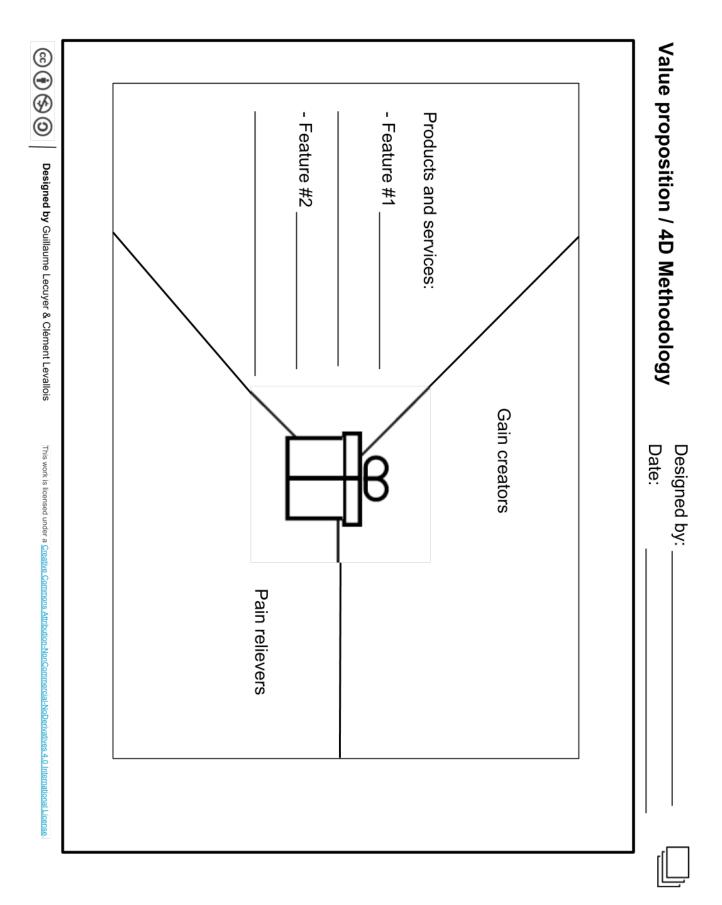


Figure 9. formalizing the value proposition

Step 10: Graphical synthesis

Figure 10. synthesis - in a visual format

Step 11: Memo synthesis

Graphical synthesis / 4D Methodology

Designed by:	
Date:	

Synthesis						
Name of the organization	Name of the idea					
Target users and the	eir needs / problems to solve					
Descrip	Description of the idea					
How does it match th	ne strategic priorities of the org					
Datasets / data sou	rces contributing to the idea					
	<u> </u>					
Expe	ected benefits					

©**(1)** (\$(0)

Designed by Guillaume Lecuyer & Clément Levallois

This work is licensed under a <u>Creative Commons Attribution-NonCommercial-NoDerivatives 4.0</u>
<a href="https://license.ncb.nlm.

Figure 11. synthesis - as a written memo

Index

ABOUT THE AUTHORS

Guillaume Lecuyer is Senior Product Marketing Manager at Visiativ. Graduate from Telecom Paris Sud, he worked in sales at Oracle EMEA before joining the CRM product management team at in California. He came back to France in 2005 to manage the CRM product strategy, still at Oracle. After 3 years at Coheris as a VP for Marketing, he joined Visiativ to supervise the strategy for marketing and product development.

Clément Levallois is professeur agrégé de l'école normale supérieure and Associate Professor at em **lyon business school**, where he conducts research projects in data mining, data visualization and network analysis in various fields of social sciences. His teaching activities center on the transmission of a digital culture to students and executive participants.

Clément Levallois is a Java coder and an active supporter of Gephi, the leading software for network visualization. In a previous academic life, he researched the history of economics and biology in post-war U.S.A.

His past and current projects can be seen at http://clementlevallois.net, and he can be reached on Twitter at @seinecle.

A step-by-step guide to creating data-driven business projects for managers

A concise and visual method to go develop business projects aligned with the strategic priorities of the organization.

Guillaume Lecuyer is Senior Product Marketing Manager at Visiativ. Graduate from Telecom Paris Sud, he worked in sales at Oracle EMEA before joining the CRM product management team at in California. He came back to France in 2005 to manage the CRM product strategy, still at Oracle. After 3 years at Coheris as a VP for Marketing, he joined Visiativ to supervise the strategy for marketing and product development.

Clément Levallois is professeur agrégé de l'école normale supérieure and Associate Professor at em lyon business school, where he conducts research projects in data mining, data visualization and network analysis in various fields of social sciences. His teaching activities center on the transmission of a digital culture to students and executive participants.

