Automation Case Study

Part 1 : Business Understanding



First one hour

- Introduction
- Delivery of Content
- No Questions

Next 50 Minutes

- Questions
- Answers
- Do not repeat questions

Last 10 Minutes

- Closing
- Feedback
- Keeping in touch

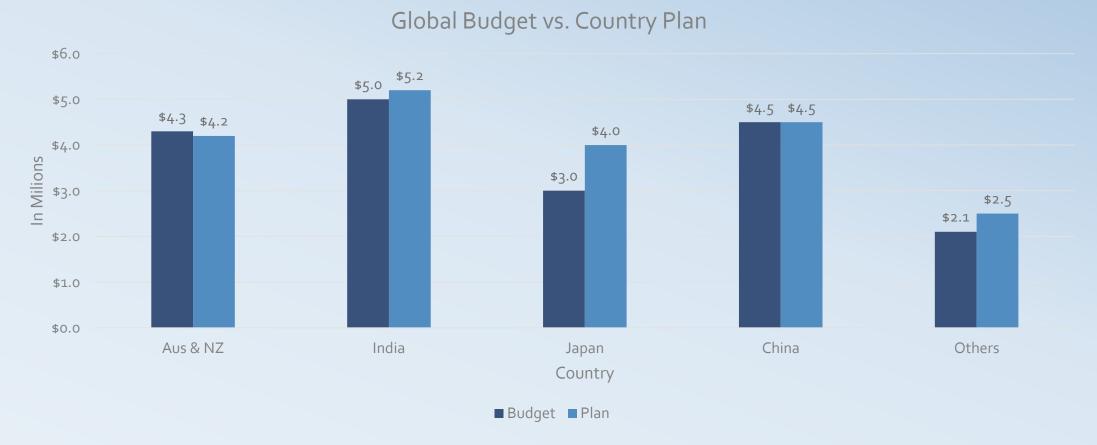
Guidelines

- Multinational Technology Company selling Laptops
- Is such companies the Budget for each department is defined
- Departments such as IT, HR, Marketing, Sales, Operations
- The budgets are further divided into Regions followed by Countries
- Each Department/Region/Country have to get their plans approved
- This automation will help the individual teams validate their Budgets as per Global Guidelines

Considerations

- We are going to use Marketing Department in this case study
- Marketing budget for APJ regions is defined
- The Budget has to be split into Countries, Business Units, Campaign based on different level of Marketing Funnel
- The Global Budget has been rolled out to regions. Each country has to plan as per the budget provided
- Various metrics to be created in the Marketing Funnel

Considerations for Automation Case Study

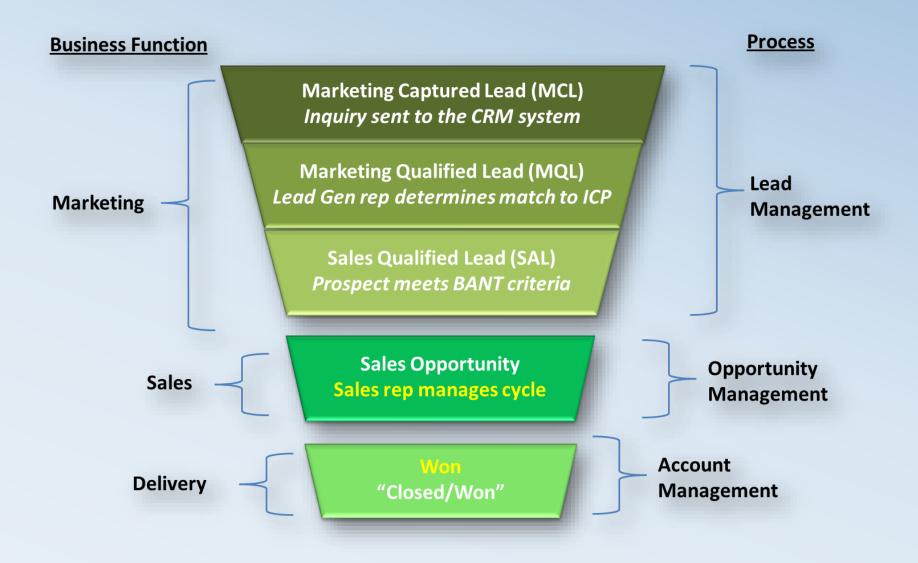


Objective: Create a automation comparing Plans vs Budget

Asia-Pacific(APJ) Region Marketing Planning

Divided into 6 Country Groups





Marketing Funnel

Most business will have a process which you should identify



Marketing Funnel

Most business will have a process which you should identify

The Review Report

Filter should aid in viewing the Region plan and Country Plan

Sub Region	JPN	<- Filter by Country				
Campaig	gn Report	FY16_Q1	FY16_Q2			
	Sales Enablement					
y v	Demand Creation					
Pu Pu	Reputation					
Spends	Digital Media					
, o	EVENTS					
	Awareness					
_	Pipeline					
punoqu	Revenue					
	Leads					
<u> </u>	Follow %					
	Conversion %					
70	Pipeline					
Outbound	Revenue					
poq	Targets					
l ž	Follow %					
	Conversion %					
Omni Channel	Pipeline					
Offini Channel	Revenue					

Outbound Marketing

Marketer-Driven, "Push" Marketing

Broadcast and print advertising

Social media advertising

Search Engine Advertising

Emails to purchased lists

Display advertising

Inbound Marketing

Consumer-Driven, "Pull" Marketing

Blogging

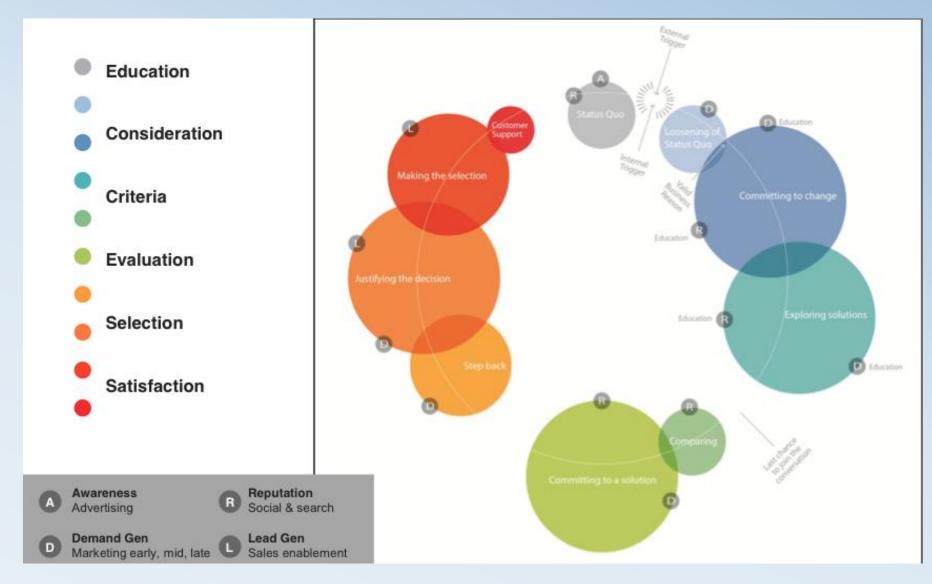
Earned social media

Search Engine Optimization

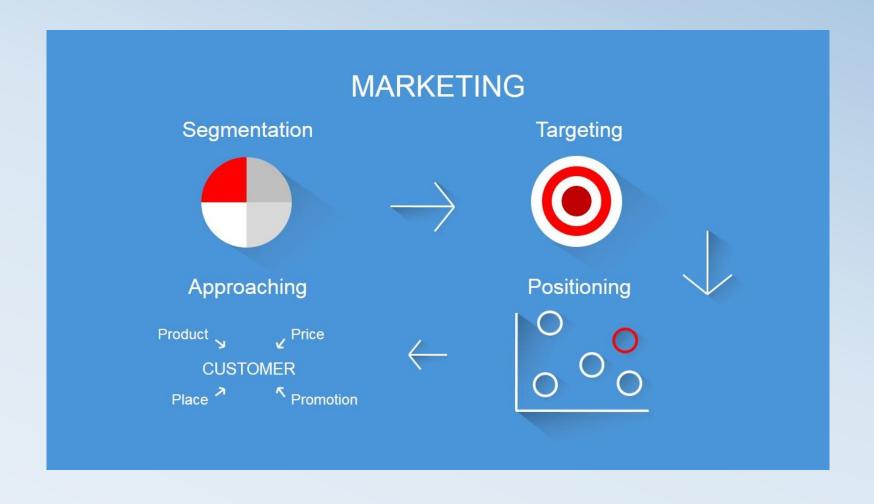
Emails to opt-in lists

Pay per click

Terminology 1



Terminology 2



Analytical Methods used feed into the Planning Process



Marketing Campaigns

Campaign N Campaign - Campaign - Campaign -		Period -	Sub Region T	ool Region 🔻		-	G							_	O P	Q R S
3 Campaign -				OOLKERION	Go To Market ▼	Campaign Type	▼ Program ▼ I	Business Category	Parent Vehicle	Funnel Objective	Reporting CO	▼ Start Date ▼ Er	nd Date 🔻 Start Qu	arter 🔻 Spen	ds Accepted Leads	Target/Leads - Pipeline - Revenue
3 Campaign -		FY16 Q2	0			Outbound	Enterprise - 1		OTHERS	Sales Enablement	Others	02-May-16	29-Jul-16 HQ2		- 220.5	
, ,		FY16 Q2				Outbound	Enterprise - 1		OTHERS	Sales Enablement	Others	02-May-16	29-Jul-16 HQ2	Ś	- 220.5	250 \$ 18,96,000 \$ 3,2
. aurribarg		FY16 Q2				Inbound	Enterprise - 2		Digital Media	Demand Creation	Others	16-May-16	29-Jul-16 HQ2		9,000 15.444	
5 Campaign -		FY16 Q2				Inbound	Enterprise - 2		Digital Media	Demand Creation	Others	30-May-16	29-Jul-16 HQ2		4,500 42.471	52 \$ 12,95,000 \$ 30
6 Campaign -		FY16 Q2				Inbound	Enterprise - 2		Digital Media	Demand Creation	Others	30-May-16	29-Jul-16 HQ2		5,000 19.305	24 \$ 5,10,000 \$ 10
7 Campaign -		FY16 Q2				Inbound	Enterprise - 2		EVENTS	Demand Creation	Others	13-Jun-16	29-Jul-16 HQ2		0,000 38.61	50 \$ 13,60,000 \$ 3
8 Campaign -		FY16 Q2				Inbound	Enterprise - 2		EVENTS	Demand Creation	Others	23-May-16	29-Jul-16 HQ2		5,000 19,305	25 \$ 6,80,000 \$ 2
9 Campaign -		FY16 Q2				Inbound	Enterprise - 2		Digital Media	Demand Creation	Others	23-May-16	29-Jul-16 HQ2		2,500 0	0 \$ - \$
0 Campaign -		FY16 Q2				Inbound	Enterprise - 2		EVENTS	Demand Creation	Others	04-Jul-16	29-Jul-16 HQ2		0,000 11.583	15 \$ 5,10,000 \$
1 Campaign -		FY16 Q2		-		Inbound	Enterprise - 2		OTHERS	Sales Enablement	Others	23-May-16	29-Jul-16 HQ2		5,000 0	0 \$ - \$
2 Campaign -		FY16 Q2				Inbound	Enterprise - 3		EVENTS	Demand Creation	Others	02-May-16	29-Jul-16 HQ2		4,830 77.22	- 7 - 7
3 Campaign -		FY16 Q2				Inbound	Enterprise - 3		EVENTS	Demand Creation	Others	23-May-16	29-Jul-16 HQ2		5.000 0	0 \$ - \$
4 Campaign -		FY16 Q2				Inbound	Enterprise - 3		Digital Media	Demand Creation	Others	09-May-16	29-Jul-16 HQ2		5,000 15.444	- + +
5 Campaign -		FY16 Q2				Inbound	Enterprise - 3 E		Digital Media	Demand Creation	Others	16-May-16	29-Jul-16 HQ2		5,000 38.61	49 \$ 3,60,000 \$
6 Campaign -		FY16_Q2				Inbound	Enterprise - 3		Digital Media	Demand Creation	Others	23-May-16	29-Jul-16 HQ2		3,000 38.61	49 \$ 2,38,000 \$
7 Campaign -		FY16 Q2				Inbound	Enterprise - 3		EVENTS	Demand Creation	Others	20-Jun-16	29-Jul-16 HQ2		9,000 0	0 \$ - \$
8 Campaign -		FY16 Q2				Inbound	Enterprise - 4		EVENTS	Demand Creation	Others	09-May-16	29-Jul-16 HQ2		6,000 0	0 \$ - \$
9 Campaign -		FY16 Q2		ND	Omni	Inbound	Enterprise - 4		Digital Media	Demand Creation	Others	09-May-16	29-Jul-16 HQ2	\$ 1	5,000 15.444	20 \$ 1,80,000 \$
Campaign -		FY16 Q2		ND	Omni	Inbound	Enterprise - 4		Digital Media	Demand Creation	Others	09-May-16	29-Jul-16 HQ2		5,000 38.61	50 \$ 4,80,000 \$ 1
Campaign -		FY16 Q2		ND	Omni	Inbound	Enterprise - 4		Digital Media	Demand Creation	Others	09-May-16	29-Jul-16 HQ2		3,000 38.61	50 \$ 4,80,000 \$ 1
22 Campaign -		FY16 Q2		ND	Through Partner	Inbound	Enterprise - 4		OTHERS	Demand Creation	Others	16-May-16	29-Jul-16 HQ2		0,000 205.821	270 \$ 25,50,000 \$ 7,9
23 Campaign -	- 6191	FY16 Q2		ND	Partner enablement	Inbound	Enterprise - 4	NT	EVENTS	Demand Creation	Others	23-May-16	29-Jul-16 HQ2	\$ 1	0,000 0	0 \$ - \$
24 Campaign -	- 5469	FY16 Q2	IND II	ND	Omni	Inbound	Enterprise - 4	NT	OTHERS	Reputation	Others	23-May-16	29-Jul-16 HQ2	\$ 1	0,000 0	0 \$ - \$
25 Campaign -	- 6532	FY16 Q2	IND II	ND	Omni	Inbound	Enterprise - 1	NT	Digital Media	Demand Creation	Others	09-May-16	29-Jul-16 HQ2	\$ 1	5,000 15.444	20 \$ 6,45,000 \$ 1
Campaign -	- 4858	FY16 Q2		ND	Omni	Inbound	Enterprise - 1	NT	Digital Media	Demand Creation	Others	16-May-16	29-Jul-16 HQ2	\$ 1	5,000 38.61	49 \$ 18,40,000 \$ 4
7 Campaign -	- 2510	FY16 Q2	IND II	ND	Omni	Inbound	Enterprise - 1	NT	EVENTS	Demand Creation	Others	13-Jun-16	29-Jul-16 HQ2	\$ 1	0,000 15.444	20 \$ 6,45,000 \$ 10
8 Campaign -	- 8706	FY16_Q2	IND II	ND	Omni	Inbound	Enterprise - 1	NT	EVENTS	Demand Creation	Others	04-Jul-16	29-Jul-16 HQ2	\$ 2	0,000 15.444	20 \$ 4,30,000 \$
29 Campaign -	- 9753	FY16_Q2	IND II	ND	Omni	Inbound	Enterprise - 1	NT	OTHERS	Sales Enablement	Others	30-May-16	29-Jul-16 HQ2	\$ 1	.0,000 0	0 \$ - \$
Campaign -	- 4313	FY16_Q2	IND II	ND	Omni	Inbound	Enterprise - 1	NT	Digital Media	Demand Creation	Others	23-May-16	29-Jul-16 HQ2	\$	3,000 38.61	49 \$ 15,05,000 \$ 3
Campaign -	- 4408	FY16_Q2	IND II	ND	Partner enablement	Inbound	Enterprise - 1	NT	EVENTS	Demand Creation	Others	09-May-16	29-Jul-16 HQ2	\$ 2	0,000	0 \$ - \$
2 Campaign -	- 3851	FY16_Q2	IND II	ND	Partner enablement	Inbound	Enterprise - 1	NT	EVENTS	Demand Creation	Others	06-Jun-16	29-Jul-16 HQ2	\$ 2	6,190 0	0 \$ - \$
3 Campaign -	- 75	FY16_Q2	IND II	ND	Partner enablement	Inbound	Enterprise - 1	NT	EVENTS	Demand Creation	Others	06-Jun-16	29-Jul-16 HQ2	\$	4,000 0	0 \$ - \$
34 Campaign -	- 6686	FY16_Q2	IND II	ND	Omni	Inbound	Enterprise - 5	NT	OTHERS	Sales Enablement	Others	02-May-16	29-Jul-16 HQ2	\$	5,000 0	0 \$ - \$
S5 Campaign -	- 3164	FY16_Q2	IND II	ND	Omni	Inbound	Enterprise - 5	NT	Digital Media	Demand Creation	Others	09-May-16	29-Jul-16 HQ2	\$ 1	5,000 15.444	20 \$ 3,60,000 \$ 1
66 Campaign -	- 6724	FY16_Q2	IND II	ND	Omni	Inbound	Enterprise - 5	NT	Digital Media	Demand Creation	Others	06-Jun-16	29-Jul-16 HQ2	\$	3,000 38.61	46 \$ 7,20,000 \$ 1
7 Campaign -	- 6055	FY16_Q2	IND II	ND	Partner enablement	Inbound	Enterprise - 5	NT	EVENTS	Demand Creation	Others	09-May-16	29-Jul-16 HQ2	\$ 2	2,000 0	0 \$ - \$
88 Campaign -	- 3432	FY16_Q2	IND II	ND	Omni	Inbound	Enterprise - 5	ENT	Digital Media	Demand Creation	Others	16-May-16	29-Jul-16 HQ2	\$ 1	0,000 19.305	24 \$ 4,80,000 \$ 1
9 Campaign -	- 84	FY16_Q2	IND II	ND		Inbound	Enterprise - 6	ENT	OTHERS	Demand Creation	Others	23-May-16	29-Jul-16 HQ2	\$ 1	5,000 156.2715	200 \$ 18,36,000 \$ 5,3
10 Campaign -	- 9770	FY16_Q2	IND II	ND		Inbound	Enterprise - 6	ENT	EVENTS	Demand Creation	Others	20-Jun-16	29-Jul-16 HQ2		5,000 46.332	
11 Campaign -	- 9689	FY16_Q2	IND II	ND	Through Partner	Inbound	Enterprise - 6	NT	EVENTS	Demand Creation	Others	09-May-16	29-Jul-16 HQ2	\$ 3	0,000 60.984	80 \$ 8,16,000 \$ 2,5
12 Campaign -	- 7164	FY16_Q2	IND II	ND	Omni	Inbound	Enterprise - 6	NT	EVENTS	Demand Creation	Others	13-Jun-16	29-Jul-16 HQ2	\$ 1	0,000 7.722	10 \$ 3,40,000 \$ 1
13 Campaign -	- 6516	FY16_Q2	IND II	ND	Omni	Inbound	Enterprise - 6	INT	OTHERS	Reputation	Others	04-Jul-16	29-Jul-16 HQ2	\$ 1	5,000 0	0 \$ - \$
14 Campaign -	- 448	FY16_Q2	IND II	ND	Omni	Inbound	Enterprise - 6	NT	OTHERS	Reputation	Others	18-Jul-16	29-Jul-16 HQ2	\$ 3	5,000 0	0 \$ - \$
5 Campaign -	- 9332	FY16_Q2	IND II	ND	Omni	Outbound	Enterprise - 4	NT	OTHERS	Sales Enablement	Others	02-May-16	29-Jul-16 HQ2	\$	- 178.2	200 \$ 13,20,000 \$ 2,4
6 Campaign -	- 8109	FY16_Q2	IND II	ND	Omni	Outbound	Enterprise - 4	NT	OTHERS	Sales Enablement	Others	02-May-16	29-Jul-16 HQ2	\$	- 89.1	100 \$ 7,90,000 \$ 1,4
17 Campaign -	- 6404	FY16_Q2	IND II	ND	Omni	Outbound	Enterprise - 4	NT	OTHERS	Sales Enablement	Others	02-May-16	29-Jul-16 HQ2	\$	- 220.5	250 \$ 18,96,000 \$ 3,3
18 Campaign -	- 6044	FY16_Q2	IND II	ND	Omni	Outbound	Enterprise - 4	ENT	OTHERS	Sales Enablement	Others	02-May-16	29-Jul-16 HQ2	\$	- 220.5	250 \$ 18,96,000 \$ 3,3
19 Campaign -	- 8500	FY16_Q2	IND II	ND	Omni	Outbound	Enterprise - 3	NT	OTHERS	Sales Enablement	Others	02-May-16	29-Jul-16 HQ2	\$	- 178.2	200 \$ 15,80,000 \$ 2,6

Campaigns Raw data filled my Country Planners

- Ideally SAS/SQL/Python/R is used to generate the reporting data
- For simplicity, we are going to use Excel(Pivots and Functions)
- Since individual countries are going to use it, we will use a country filter
- Also, we will have another filter to showcase the global plan

Automation Strategy

Challenge

Create Automation for Q1,Q2 Quarters Plans

Sub Region	JPN		
Campaig	n Report	FY16_Q1	FY16_Q2
	Sales Enablement		
y v	Demand Creation		
P P	Reputation		
Spends	Digital Media		
, o	EVENTS		
	Awareness		
_	Pipeline		
<u> </u>	Revenue		
punoqu	Leads		
ם	Follow %		
	Conversion %		
70	Pipeline		
Outbound	Revenue		
Poq	Targets		
l ž	Follow %		
	Conversion %		
Omni Channel	Pipeline		
Offini Channel	Revenue		



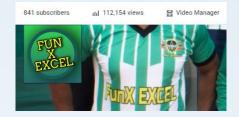


Analytics Practitioner, Lifeaholic Evangelist, Learner, YouTuber and Apprentice Philosopher

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Stay in touch!