

Building Enterprise Voicebots: A Guide for Success

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Welcome!

Agenda:

- Why conversation is so important
- How do I prioritize in the context of my current work?
- What challenges does Enterprise have?
- How do I properly use LLM/GenAl in my process to build conversational experiences?
- How Dialogflow and CCAI tools can help development & implementation



Who am I?



To get the right information, to the right person, in the right way, at the right time.

Conversation is Critical for Society

There would be no:

Buildings

Roads

Stories/Books/TV/Movies

Without communication there would be no ability to build as a group. Communication, specifically written words and speech are inherently human.



Conversational Types



Informational

Find the exact answers you are looking for quickly using natural language queries

Transactional

Tasks that once needed a human like checking order status or processing a return are easily handled e2e automatically



Generative

Combined with Informational & Transactional these to create new, magical experiences

- Generate content in the best format for the question and audience novices to experts
- Help users by answering complex questions and performing tasks using site + world knowledge

Informational & Transactional



Unlocking a plethora of use cases for enterprise



LLMs bring new abilities to Conversational Al... but...

...there are additional challenges for Enterprise

LLMs		Enterprise			
Feel human	\bigcirc	Data privacy, compliance	\bigcirc	Grounded in your data	\bigcirc
Problem solvers	\bigcirc	Legacy Systems	\bigcirc	Tight business logic	\bigcirc
Lower effort	\bigcirc	Integrations	\bigcirc	Brand consistency	\bigcirc
Generative	\bigcirc	Scale	\bigcirc	Cost	\bigcirc
0				0	
		Google Cloud Generativ	e Al		

Enterprise is not a greenfield





ABCUT - A SOMEWHAT FAKE USE CASE



Custom waterjet & CNC Manufacturing for both public & private sectors

FLOORING	TURF	METALS	FOAM PACKAGING	SIGNAGE
CUSTOM APP	LICATIONS			

FAST AND RELIABLE SERVICE FOR YOUR PROJECT–BIG OR SMALL, WE DO IT ALL!

VCT & LVT



How to Prioritize? 4-Box Model

Potential Impact

What is the functional uplift?

Average Handle Time (AHT) Cost per Contact Cost per Transaction Level of Effort

>>>>

What is the time/cost to implement?

Time (w/ or w/o GenAl) Software/Hardware Feasibility (in context) Business Rules/Process

4 Box Model

- High Value, Low Effort These are easily your (1) "priority". Can use GenAl features or standard flows
- Low Value, Low Effort e.g. FAQs, perfect for (2) GenAl, could be accepting of higher risk

High Value, High Effort "heavy" functionality and experiences, require high level of API readiness

(4)

(3)

Low Value, High Effort could be due to outside factors, business rules. Should be deprioritized unless otherwise stated

\$

Example Use Cases - ABCUT

Functional Volume

Name

Examples:

- PTO balance
- PTO request & approval
- Time keeping
- Open Enrollment FAQs
- Open Enrollment
- Process I9 (API will be ready in 6 months)
- Performance Metrics (widgets created)
- HR FAQs (from handbook)
- Proactive onboarding messaging
- Recruitment SMS
- Sales/Design Quotes GenAl

Defining Potential Impact

Supported by

Volume

Traffic and Containment monitoring, Call/Transcript Review Automated testing Feedback Loop

Volume != Addressable Volume != Potential Impact

Defining Potential Impact

Average Handle Time

24hr Containment

72hr Containment

Cost per Contact

Call Volume

The total contacts for a specific interaction/function/intent/agent group

Average Handle Time

The total time spent on all calls or interactions, then dividing by the number of calls or interactions.

\$

Hourly Rate

Average \$/hr rate for contact center employee (specific to domain/function)

Cost per Transaction

of Interactions

Based on the context of your use case. Could be number of employees, number of users, etc

Average Time to Complete

The total time spent on completing the action. Could include button clicks, searching, physically walking/using hardware. Include only time spent on interaction, not time waiting for approvals/processes

Hourly Rate

Average \$/hr rate for contact center employee (specific to domain/function)

Define Level of Effort

1-5 Scale 1 - 2 Weeks 2 - 1 Month 3 - 2 months 4 - 3 months 5 - 4 months

Take Inventory

Always check for TP before sitting down. Look at your current taxonomy, apps, websites, content, APIs etc.

Define Backend needs

What outside of the agent experience is needed? Are APIs easily accessible? Are data formatted for conversational use cases?

Who is going to be doing the work

Four Box Model (4BM)

Google

Building bots is faster and easier than ever

ADD F Prebuilt flow Θ Authenticate Verify user's identity against known records Logic flow Check order status Send account info and get status of order Prompt flow processing and delivery E Explain bill Send customer info to get balance and offer details around specific items Book appointment Send appointment details and user ID and get back an appointment confirmation More..

Intuitive UI lets you map your business logic in minutes as AI takes care of all of the possible transitions dynamically

Instructions An instruction is a specific task that the virtual agent should do in the conversation The flow... is always friendly and polite The flow... collects the payment_amount . from the customer The flow... collects the payment_method - from the customer If... the payment_method . is credit The flow... collects the credit_number - credit_expire - credit_cs Call... RPI Payments - (credit number credit expire -- The flow... describe what the bot should do or how it should act in a sentence

Create a flow using just natural language

Simply describe what tasks the flow should complete including what information it should collect and which APIs to call

Auto-create from your content

Start with as little as your website or other business documents. Your bot is created in a few clicks and can find answers to complex questions using the content.

Leverage prebuilt flows

These handle common tasks like authentication and checking order status and can be added to you bot in a single click. Then, just set up your API according to the flow instructions.

Graph your business logic

CCAI Insights automatically surfaces most-asked questions and provides Al-generated answers

Selected topics can be automatically added to your bot as flows.

We'll even auto-detect topics that can be covered by prebuilts.

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	Page					
	Ы					
	Prebuilt flow		Auther	nticate	& Book appointment	Open account
	80					
	Custom flow					
	+.	Check balance	👗 Pay bil		🐛 Explain bill	
	Auto-answers					

Leverage prebuilt flows

Selected topics can be exported and added to your bot.

We'll even automatch topics with available prebuilt flows.

Graph your business logic

Intuitive UI lets you map your business logic in minutes as AI takes care of all of the possible transitions dynamically

Use natural language

Finally, you can create flows using just natural language instructions.

This makes creating a bot as easy as explaining what it should be able to do to a human.

- (Cymbal Bank Bot Build Resources Testing Deployment	•	en 🔻	Prev	iew
¢	Default Start Flow > Pay bill				
>	A promot-specified flow is a new flow type that is no longer defined in the language of names and transitions. It is written in a				
	mixture of natural language and structured data. Learn more				
:	Flow name Pav bill				
	Instructions				
	An instruction is a specific task that the virtual agent should do in the conversation. Learn more				
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Create parameter

Conversational Development | GenAl

Where does it fit in the life cycle? It's about using the right technology application.

Four Box Model (4BM) after LLM

Example Use Cases - ABCUT Results

Functional Volume

Name

Examples:

- PTO balance GenAl not needed
- PTO request & approval Potential GenAl
- Time keeping GenAl not needed
- Open Enrollment FAQs Informational
- Open Enrollment Transactional
- Process I9 (API will be ready in 6 months)
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Wrap-up

It's about getting the right information, to the right person, in the right way, at the right time.

Enterprise is not a greenfield

Check your inventory

Do the math! Volume != Potential Impact

4 Box Model to prioritize

How GenAl can help

Thank you!

