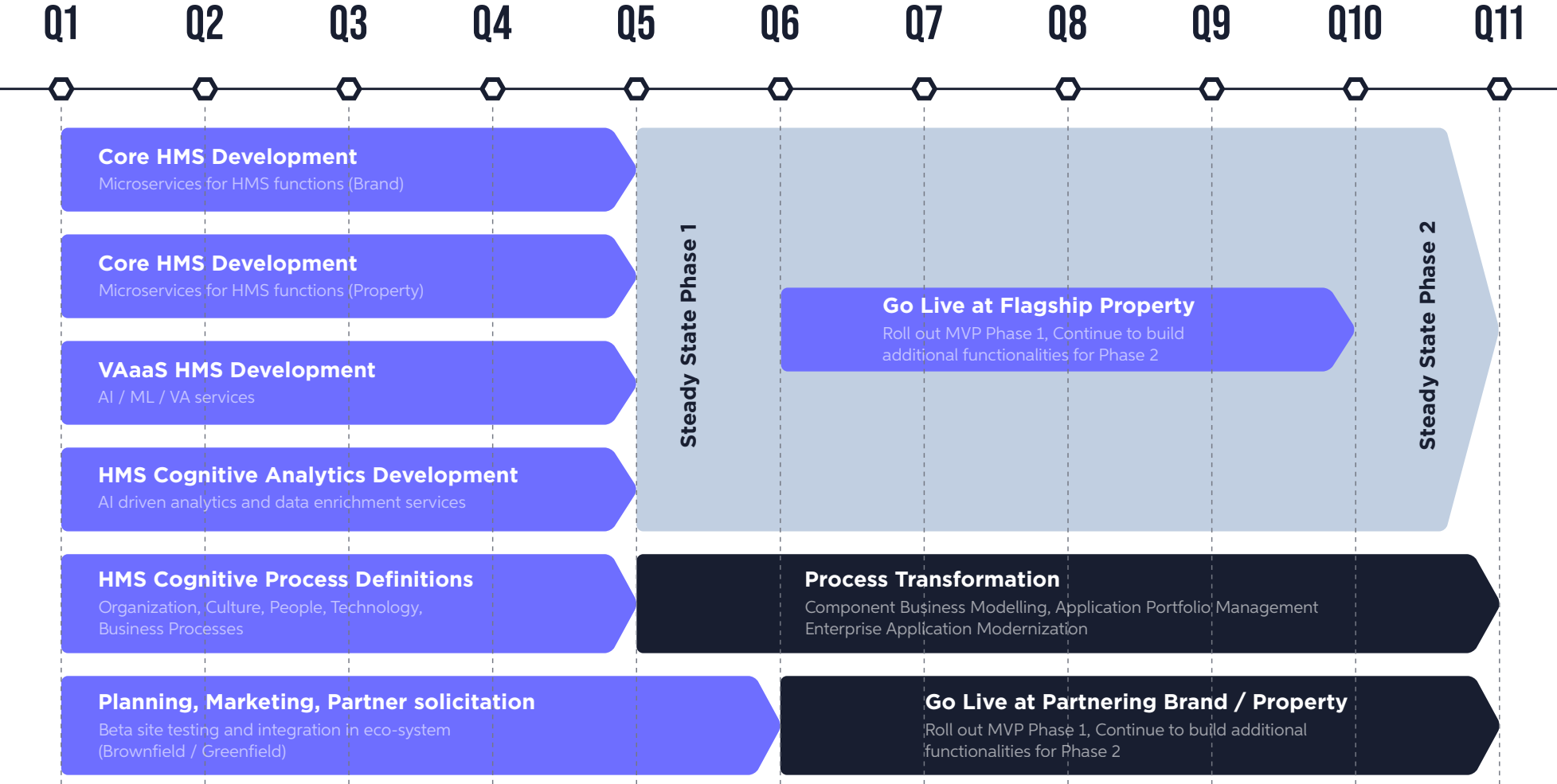




# ModiHost: Roadmap

# HMS Architecture Roadmap at a glance (Quarterly)



# Roadmap

	<b>Start</b> Month / Week	<b>Finish</b> Month / Week	<b>Category</b>	<b>Activity and details</b>	<b>Dependency</b>
<b>PHASE 0</b>					
Quarter 1	-2 / 1	-2 / 2	General	<b>Design data capture platform</b> Architecture, Design, Define Data Model	Scout for brand / property to integrate / uplift data
	-2 / 2	-2 / 3	General	<b>Develop data capture platform</b> Develop and unit test	Availability of brand to integrate; hardware / software availability
	-2 / 3	-2 / 4	General	<b>Upload data</b> Bring data on cloud platform	Agreement with brand / property to integrate and upload data
	-1 / 1	-1 / 4	General	<b>Mobile app</b> New customer data input	Availability of beta customers, agreement to onboard
	-1 / 2	-1 / 4	General	<b>Social Media integration</b> Facebook, Twitter, Instagram	Scout some interested parties and customers, agreement to connect
	-1 / 3	0 / 4	General	<b>Stabilize data capture platform; UIN issue</b> Ensure readiness for Phase 1; correlate all records to UIN	Availability of clean data records, data governance, security; E2E testing
<b>PHASE 1</b>					
Quarter 2	1 / 1	1 / 4	AI	<b>Chatbot with NLP integration</b> Architecture, Design, Define Intents	Scout for a group of beta customers
	1 / 1	1 / 4	IoT	<b>IoT design</b> Architecture, Design, Define Integration Model	Scout for brand / property to integrate FMS IoT data – look for existing capabilities



	<b>Start</b> Month / Week	<b>Finish</b> Month / Week	<b>Category</b>	<b>Activity and details</b>	<b>Dependency</b>
	1 / 1	1 / 4	Analytics	<b>Analytics design and use case definition</b> Architecture, Design, Define Data Sources	Scout for brand / property to integrate / uplift data
	1 / 1	2 / 3	HMS	<b>Omni-channel booking engine design</b> Architecture, Design, Define Data Model	Availability of brands / providers to integrate; hardware / software readiness; Open APIs
	1 / 1	2 / 3	HMS	<b>Dynamic Pricing Engine</b> Architecture, Design, Define Data Model	Availability of brands / providers to integrate; hardware / software readiness; Open APIs
	2 / 1	2 / 3	IoT	<b>Define process and workflows</b> Data flow and triggers across systems	Availability of brand to integrate; brand hardware / software system details
Quarter 2	2 / 1	3 / 4	AI	<b>Chatbot Development</b> Development and Unit Test	Test with beta customer data
	2 / 1	5 / 3	Analytics	<b>Analytics engine development</b> Develop and Unit Test	Availability of brand to integrate; hardware / software availability
	2 / 3	6 / 4	HMS	<b>Booking engine development</b> Develop and unit test	Agreement with brand / property to integrate and exchange data
	2 / 3	6 / 4	HMS	<b>Pricing Engine development</b> Develop and unit test	Agreement with brand / property to integrate and exchange data
	2 / 4	8 / 4	IoT	<b>IoT integration</b> Interoperability with FMS / device	Agreement with brand / property to integrate for exchanging data and interoperate; E2E Testing
Quarter 3	4 / 1	7 / 4	AI	<b>Integrate PMS / HMS IoT</b> Facilities management	Scout some interested parties and customers, agreement to connect



	<b>Start</b> Month / Week	<b>Finish</b> Month / Week	<b>Category</b>	<b>Activity and details</b>	<b>Dependency</b>
	5 / 4	9 / 4	Analytics	<b>Upload brand data, E2E Test</b> Bring data on cloud platform	Agreement with brand / property to integrate and upload data
Quarter 3	6 / 1	8 / 4	AI	<b>Enhance Concierge</b> Order services, tours	Availability of beta customers, agreement to onboard
	6 / 3	10 / 4	IoT	<b>AI Chatbot NLP integration</b> Interoperability with voice commands	Agreement with brand / property to integrate for exchanging data and interoperate; E2E Testing
	7 / 1	10 / 2	HMS	<b>Integrate with AI chatbot and end to end testing</b> Test across brands with omni-channel	Onboarding new brands and properties into HMS; integrate with their core systems (alternately develop and test with provider Open APIs)
Quarter 4	7 / 1	11 / 1	Analytics	<b>Data Analytics, Insights</b> Value added service to brands	Agreement with brand / property to buy value added services
	7 / 1	11 / 2	AI	<b>Enhance HMS functionality</b> Integrate with booking, pricing	Booking and pricing engine functionality ready
	10 / 2	11 / 2	IoT	<b>Enhanced capabilities</b> Integrate additional functionalities	Agreement with brand / property to integrate for exchanging data and interoperate; E2E Testing
Quarter 5	10 / 2	11 / 2	Analytics	<b>Enhanced capabilities</b> Add additional functionalities	Agreement with brand / property to integrate for exchanging data and interoperate; E2E Testing
	10 / 3	12 / 4	HMS	<b>Stabilize platform – Steady State Phase 1</b> Ensure readiness for Phase 2; correlate all records to UIN	Availability of clean data records, data governance, security



	<b>Start</b> Month / Week	<b>Finish</b> Month / Week	<b>Category</b>	<b>Activity and details</b>	<b>Dependency</b>
Quarter 5	11 / 1	12 / 4	AI	<b>Stabilize platform – Steady State Phase 1</b> Ensure readiness for Phase 2; corelate all records to UIN	Availability of clean data records, data governance, security
	11 / 3	12 / 4	IoT	<b>Stabilize platform – Steady State Phase 1</b> Ensure readiness for Phase 2; corelate all records to UIN	Availability of clean data records, data governance, security
	11 / 3	12 / 4	Analytics	<b>Stabilize platform – Steady State Phase 1</b> Ensure readiness for Phase 2; corelate all records to UIN	Availability of clean data records, data governance, security
<b>PHASE 2</b>					
Quarter 6	13 / 1	13 / 4	IoT	<b>Architect for futuristic IoT</b> Data flow and triggers across systems	Availability of brand to integrate; brand hardware / software system details
	13 / 1	13 / 4	Analytics	<b>Additional analytics use cases definition</b> Architecture, Design, Define Data Sources	Scout for brand / property to integrate / uplift data
	13 / 1	14 / 4	AI	<b>Text and Voice driven booking</b> Mobile app / Omni-channel	Stabilized platform from Phase 1; E2E Testing
	13 / 1	17 / 4	HMS	<b>Airlines booking integration</b> Develop and unit test	Agreement with brand / providers to integrate and exchange data; Open APIs functionalities
	13 / 1	17 / 4	HMS	<b>Rental Car/ Vac integration</b> Develop and unit test	Agreement with providers to integrate and exchange data; Open APIs
	13 / 1	20 / 4	IoT	<b>IoT enhancement</b> Additional devices and FMS integration	Brand / property to integrate FMS IoT data and existing capabilities



	<b>Start</b> Month / Week	<b>Finish</b> Month / Week	<b>Category</b>	<b>Activity and details</b>	<b>Dependency</b>
Quarter 6	13 / 1	21 / 4	HMS	<b>Core HMS/PMS functionality enhancements</b> Microservices based HMS/PMS functionalities	Hardware / software readiness; Open APIs; scout brands to buy Microservices based modular functionalities
	13 / 1	23 / 4	HMS	<b>Omni-channel booking and pricing</b> Include more brands and integrate	Availability of additional brands & properties / providers to integrate; hardware / software readiness; Open APIs; Ongoing activity
	14 / 1	18 / 2	Analytics	<b>Analytics development</b> Develop and Unit Test	Availability of brand to integrate; hardware / software availability
	14 / 1	18 / 4	IoT	<b>Futuristic IoT development</b> Code and Unit Test	Agreement with brand / property to integrate for exchanging data and interoperate
	15 / 1	16 / 4	AI	<b>Text and Voice driven ordering</b> Service Orders – concierge plus	Agreement with brands and providers to exchange data and interoperate; E2E Testing
	17 / 1	24 / 4	AI	<b>Additional value- added services</b> Develop enhanced CX – Prototype ver 1	No dependency, parallel activity – scout beta customers when ready (will carry on beyond Phase 2)
Quarter 7	18 / 1	22 / 4	AI	<b>Airline services</b> Instant feedback through AI Chat app	Agreement with Airline brands and providers to exchange data and interoperate; E2E Testing
	18 / 1	22 / 4	AI	<b>Car / Other Services</b> Instant help / feedback	Agreement with Car Rental brands and service providers to exchange data and interoperate; E2E Testing
	18 / 1	23 / 4	HMS	<b>Integrate with AI chatbot and end to end testing</b> Test all functions across brands with omni-channel	Agreement with providers to integrate and exchange data; Open APIs
	18 / 3	18 / 4	Analytics	<b>Upload brand data; E2E test</b> Bring data on cloud platform	Agreement with brand / property to integrate and upload data



	<b>Start</b> Month / Week	<b>Finish</b> Month / Week	<b>Category</b>	<b>Activity and details</b>	<b>Dependency</b>
Quarter 8	19 / 1	22 / 4	IoT	<b>AI Chatbot NLP integration</b> Interoperability with voice commands	Agreement with brand / property to integrate for exchanging data and interoperate; E2E Testing
	19 / 1	23 / 4	Analytics	<b>Additional Data Analytics, Insights</b> Value added service to brands / consumers	Agreement with brand / property to buy value added services; opt-in for consumers
	20 / 1	22 / 4	Analytics	<b>Enhanced capabilities</b> Add additional functionalities	Agreement with brand / property to integrate for exchanging data and interoperate; E2E Testing
	20 / 1	24 / 4	IoT	<b>Stabilize platform – Steady State Phase 2</b> Ensure readiness for Phase 2+/3; corelate all records to UIN	Availability of clean data records, data governance, security
	23 / 1	23 / 4	IoT	<b>Enhanced capabilities</b> Integrate additional functionalities	Agreement with brand / property to integrate for exchanging data and interoperate; E2E Testing
Quarter 9	23 / 1	24 / 4	AI	<b>Stabilize platform – Steady State Phase 2</b> Ensure readiness for Phase 2+/3; corelate all records to UIN	Availability of clean data records, data governance, security
	23 / 1	24 / 4	Analytics	<b>Stabilize platform – Steady State Phase 2</b> Ensure readiness for Phase 2+/3; corelate all records to UIN	Availability of clean data records, data governance, security
	24 / 1	24 / 4	HMS	<b>Stabilize platform – Steady State Phase 2</b> Ensure readiness for Phase 2+/3; corelate all records to UIN	Availability of clean data records, data governance, security







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