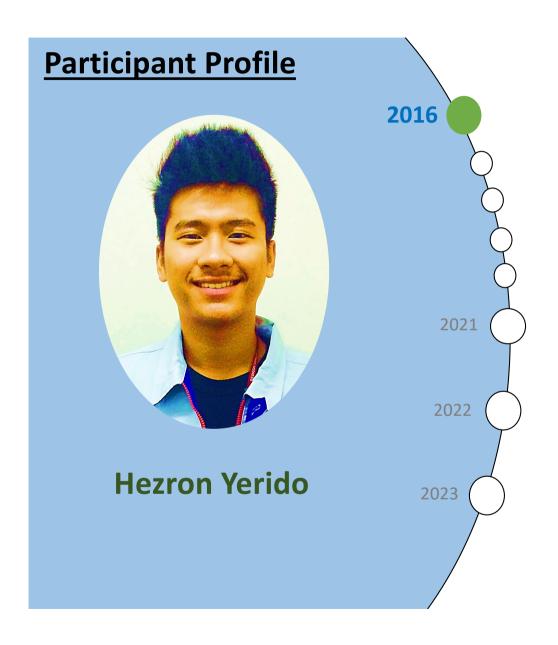
# Suggestion System

Product Evaluation (Goguchi & New Model) Through Big Data Analysis

HEZRON YERIDO
PRODUCT BUSINESS MANAGEMENT DIVISION





### **TMMIN Sunter 1**

**Production Control Division** 

Strategic Planning – Make vs Buy

# **Participant Profile**

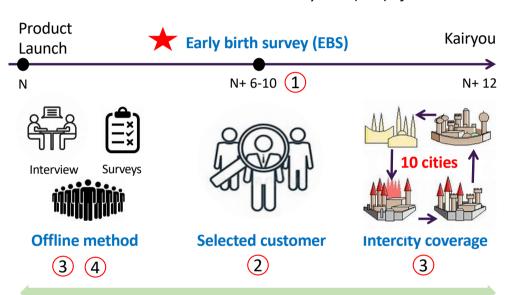


**Hezron Yerido** 

**TMMIN Sunter 1** 2016 Strategic Planning – Make vs Buy **TMMIN Head Office Product Business Management** 2021 Current **Future** (Biz & Vol expansion) (Mobility) **Biz Product Planning Value Chain** New Biz Initiative TPS service 2022 **Role:** Product Competitiveness Improvement starts from Goyokiki to get Product Solution and increase Sales. **Product** Sales Goyokiki solution Now Goyokiki → To grasp customer/market needs & feedback on Toyota product

## **Current Condition**

Current Goyokiki (EBS) of Innova Zenix



- Goyokiki period → 4 months (Long lead time)
- Respondent coverage → relatively small
- Cost → Relatively high (domestic travel)
- Resources (MP) → TAM, TMMIN, TDEM











Group

Theme: economics, health, **customer voice**, biz situation, etc





Comment at Fitra Eri Post on Innova Zenix



### **Inspiration for Goyokiki**

Is it possible to grasp customer voice in social media, online forum etc on Toyota Product?



Along with Company Hoshin, try to execute Goyokiki idea

#### Idea #1



**Desktop study** (capture cust voice in social media)

- Manual data collecting - High time consumed



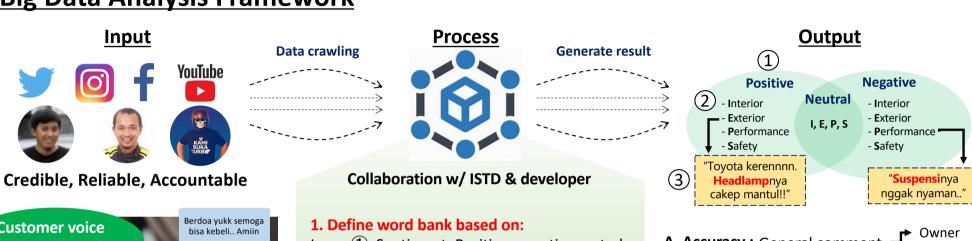
#### Idea #2

Promote New Way of Working in capturing thousands of cust. voice in online platform thru Big Data Analysis





### **Big Data Analysis Framework**

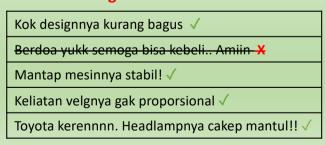




Layer ①: Sentiment: Positive, negative, netral Layer 2: Part category: Int, ext, perf, safety Layer ③: Part name: headlamp, mesin, etc

2. System logic: Customer voice being analyzed based on Keyword / word bank

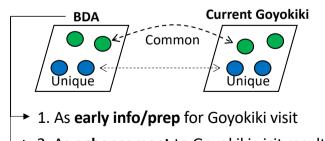
#### 3. Data cleansing → Filter irrelevant comments



A. Accuracy: General comment -Ensure by layer ③ (part name) → Comment on part level is capable doing by Owner

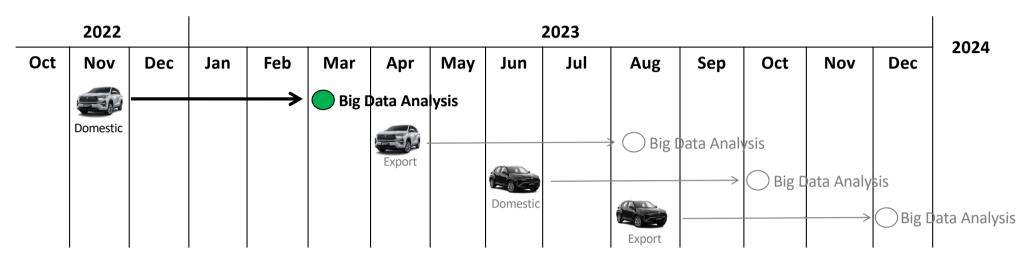
#### **B.** Utilization:

Big data analysis useful as part of Goyokiki activity series along with current Goyokiki (visit)

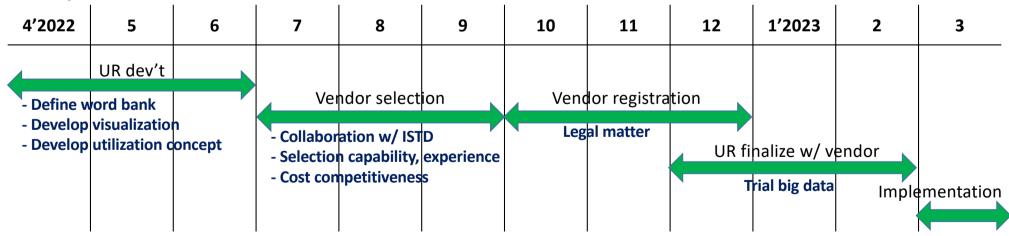


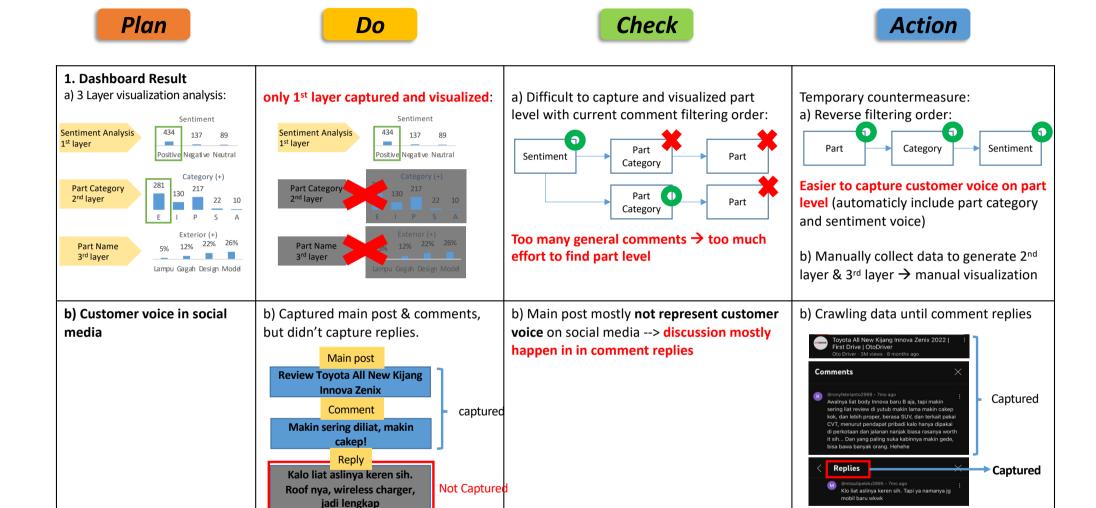
2. As **enhancement** to Goyokiki visit result

### **Milestone Activity**



### **Development Plan & Role**





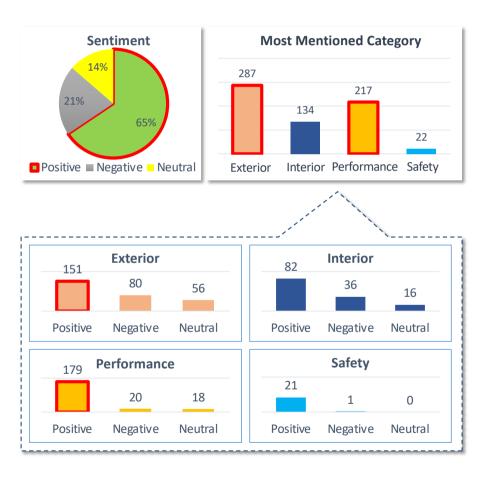
### **Dashboard Interface (Big Data Analysis)**





### **Implementation Result**

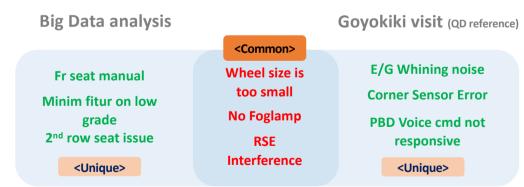
**Domestic (Innova Zenix)** → **SOP Nov'22** (Data Crawling Period → Dec'22 – Feb'23)



#### 1. Market Acceptance (Top/Most Comment)



#### 2. Market Feedback (Top/Most Comment)



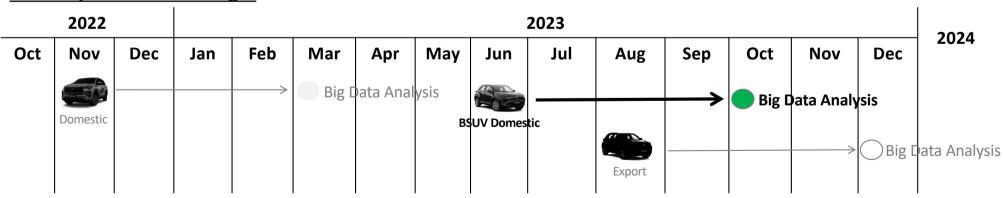
# **Yokoten Plan & Next Action**

Item	Division	Activity	Due date
1. Yokoten internal TMMIN	PBMD	Implementation product evaluation for next project with improved process:  1. Yokoten → B-SUV Domestic  2. Function Expansion → Conversion (Domestic & Export)  3. Function Expansion → Accessories (C-MPV Export, Fortuner Export, etc)	Aug'23
	QD	Sharing Big Data Analysis Tools & combine w/ QD goyokiki result	Aug'23
2. Collab w/ TAM	TSD	Sharing Big Data Analysis result & grasp feedback for improvement/collaboration	Sep'23

### **Improvement Item (Big Data Tools)**

No	Item	Action	Due Date
1	Machine learning	Ensure machine learning captured reply comment in beginning	
2	Sentiment accuracy	Update vendor bank word with more slang word	Aug'23
3	User requirement	Dashboard output follow latest UR (automatic generate visualization)	

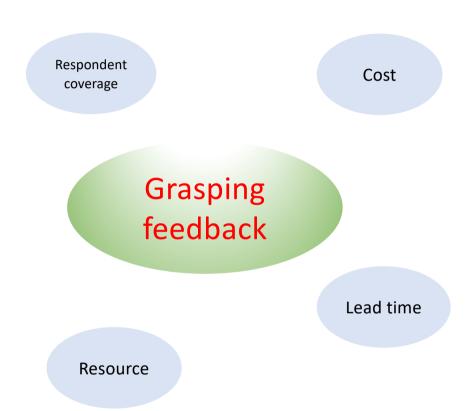
### **Next Implementation Target**



(Productivity)

**Online Activity** 





(Quality)

Nation Wide (Social Media User)

Wide customer scope coverage

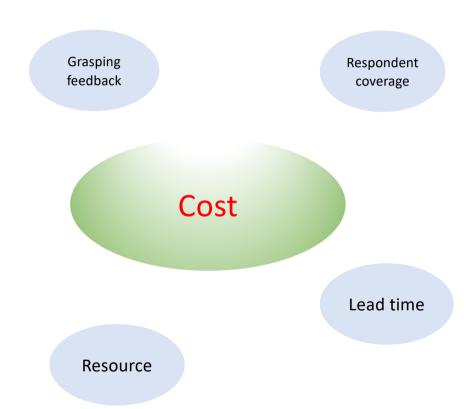
Resource Cost

Cost

Lead time

Less Resource (system only)

Save > 100 Mio IDR

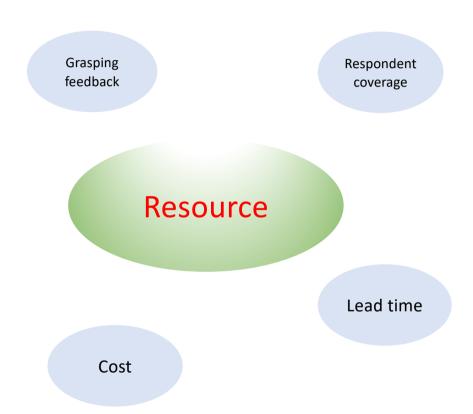


(Productivity)

2 member only



90% less resource



(Productivity)

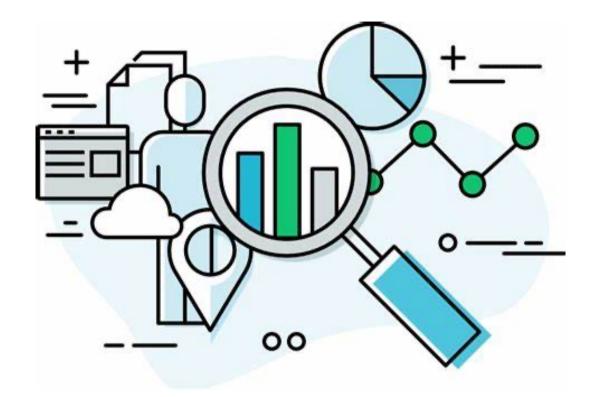
1 Month activity



3 month faster than current



Big data analysis is **New Way of Working** as part of Current Goyokiki activity series which **cheaper & efficient** to **enhance current goyokiki in grasping customer voice** more **flexible**, **wider scope**, **less lead time & resource** (cost & MP)



Thankyou.