

LHP's NEST

Incubating the next-generation safer autonomous drive!

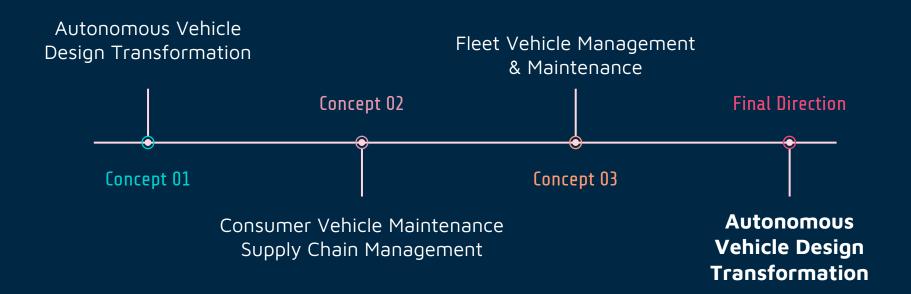


"I'm really excited about everything we're building here at LHP. We're guiding the best brands in the world to deliver safer transportation via autonomous, electric, and connected technology."

David Glass

Co-Founder & CEO

Ideation Journey

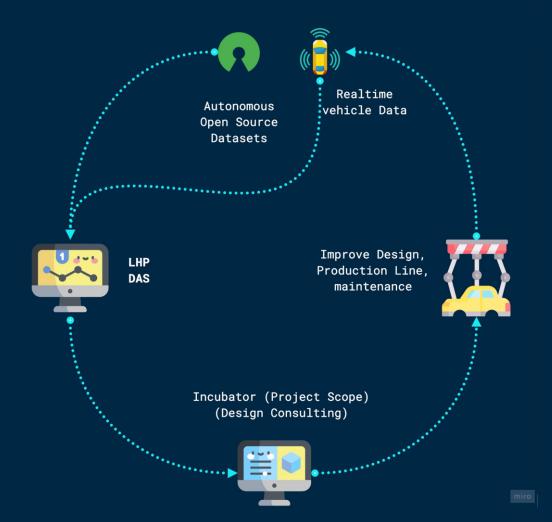


LHP Nest: AV Sensor Design Incubator





Proposed Schematic





Today there are 100+ open source datasets for autonomous driving*.





NUSCENES by Motional





Oxford RobotCar Dataset



Berkeley DeepDrive



Why are these organizations democratizing the data?

- → To drive innovation.
- → To make more safer autonomous vehicles
- → To improve Machine Learning algorithms making them robust.



Project - SCOPE

Sensor Combinatorics and Optimal Positioning Ecosystem design































"Sensing for automated cars is like sensing for living beings — there is no one perfect sensor configuration that prevails in all environments and fits all budgets."

Open Autonomous driving Org



Sensor Combinatorics

Operational Design Domain (ODD)

- → Cameras
- → LiDAR Sensors
- → Radars
- → Ultrasonic

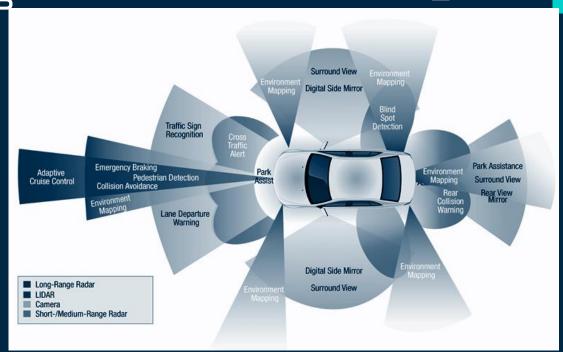




Optimal Positioning

Field of View (FOV)

- → Coverage
- → Blind Spots
- → Occlusion
- → Sensor Colocation





Proposed Business Architecture

LHP DAS

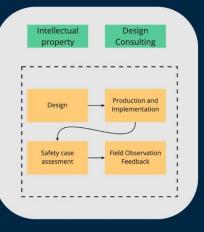
Open Source Autonomous Vehicle Data



Data Gathering Data refinement, order & tree structure

Nest - Project Scope Researchers Research Strategists Analysis Define Use Cases Create POC Engineers Get results

IP & Deliverables





Proposed Business Architecture

Nest - Project Scope

IP & Deliverables

Strategists

Define Use Cases

Create POC

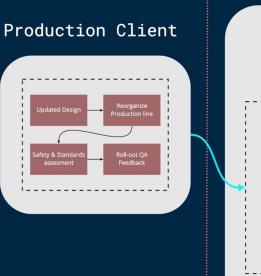
Safety case

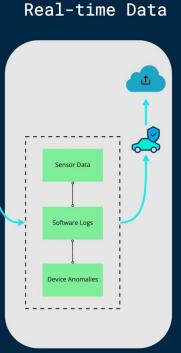
Analysis

Field Observation
Feedback

Get results

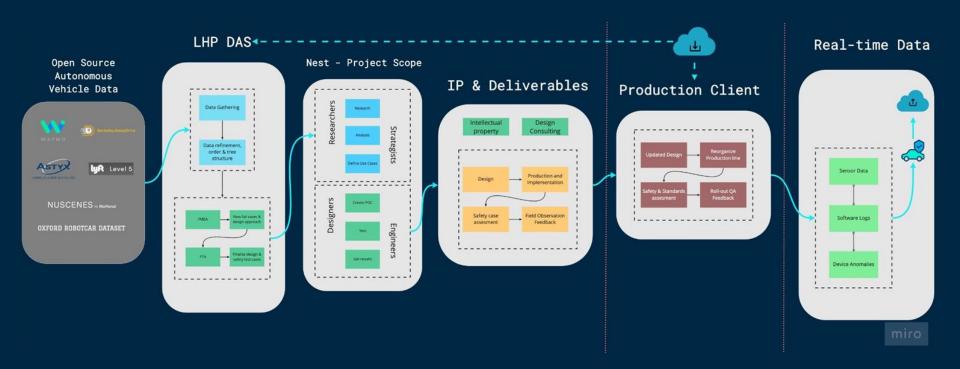








Proposed Business Architecture



How can we pitch LHP Nest to the Leadership team?



Customer Segments



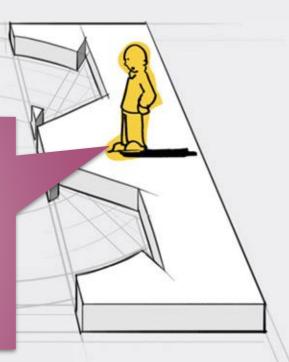
Automotive OEMs, EV and AV Startups



TAM is \$ 3 billion in 2020 & is expected to reach \$ 8 billion by 2026



*Design segment is anticipated to register highest CAGR of 29%



Value Propositions



Better Design Decisions



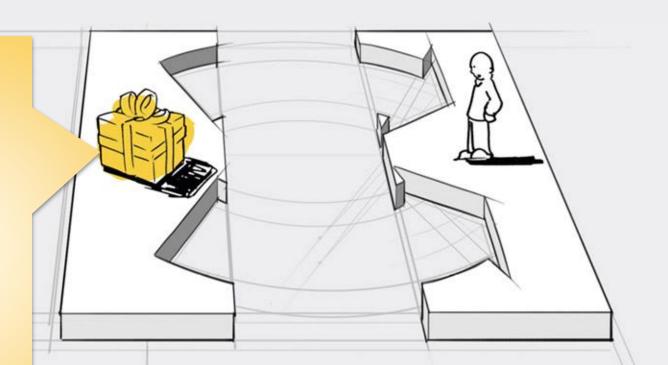
Intellectual Property

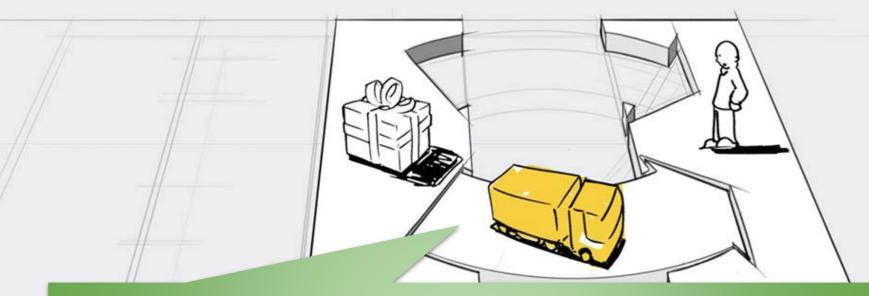


Functional Safety
Expertise + Design
Consulting



Reorganised Production Line insights





Channels



Awareness through ISO Standard practitioners



Evaluation through hybrid lifecycle & production



Purchase through Longterm contracts



Delivery by timely design reviews



Post Sales by Proactive Remote 24/7 DAS Insights

Customer Relationships



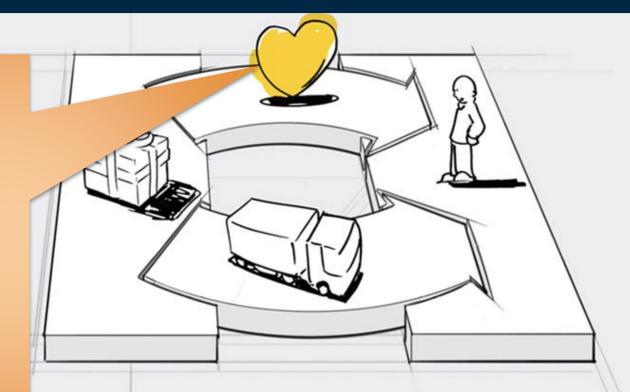
Acquisition by Advocating and Executing ISO Standards



Retention by Timely insights and new design launches



Boosting sales by Diversifying insights and Design consulting



Revenue Streams



Long term contracts



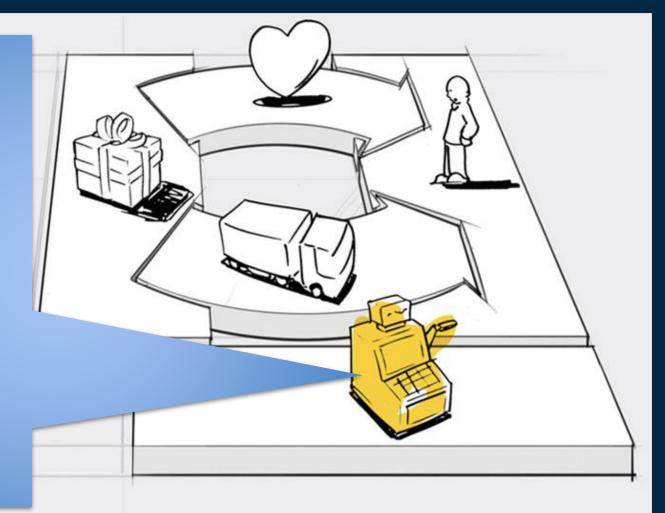
I.P. - client data sharing

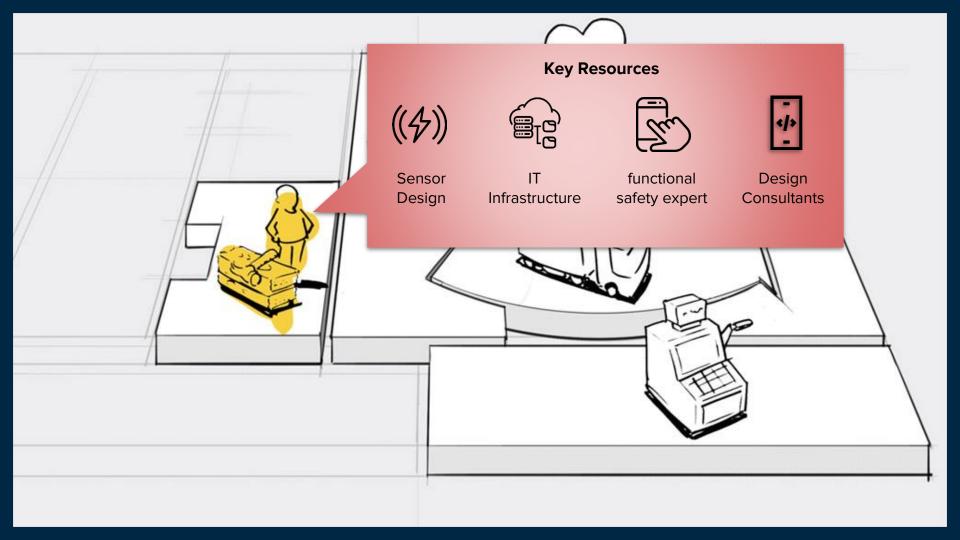


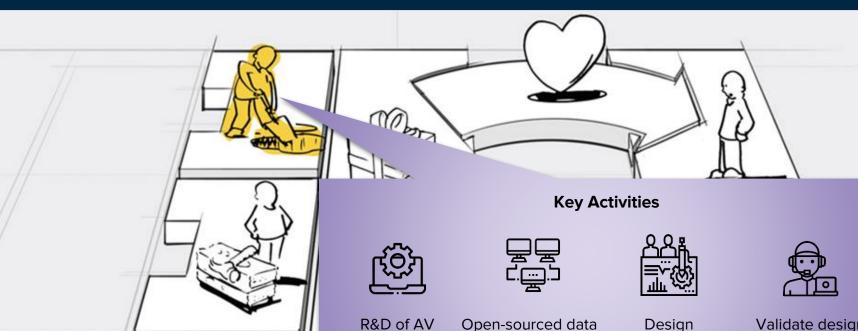
Design Consulting



Component/unit volume pricing & multiple clients discount for OEMs

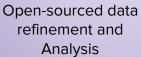


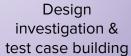


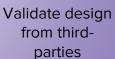


designs and

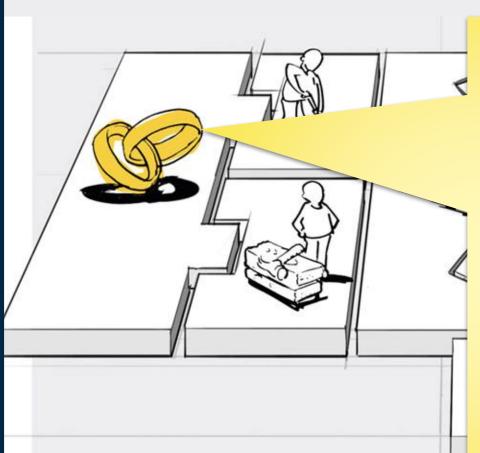
data searching











Key Partners



Independent firm/expert as a moderator E.g., <u>Kugler Maag CIE</u>

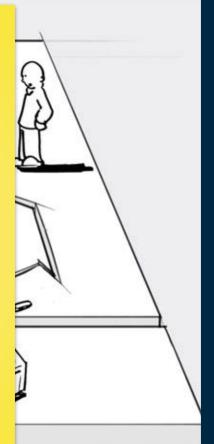


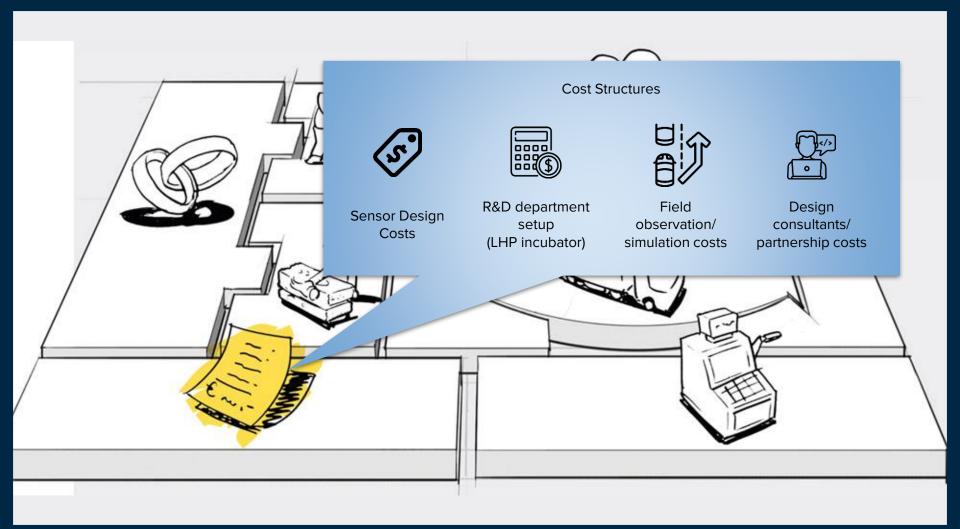


AV OEMs
Sensors design partners
E.g., AutonomouStuff

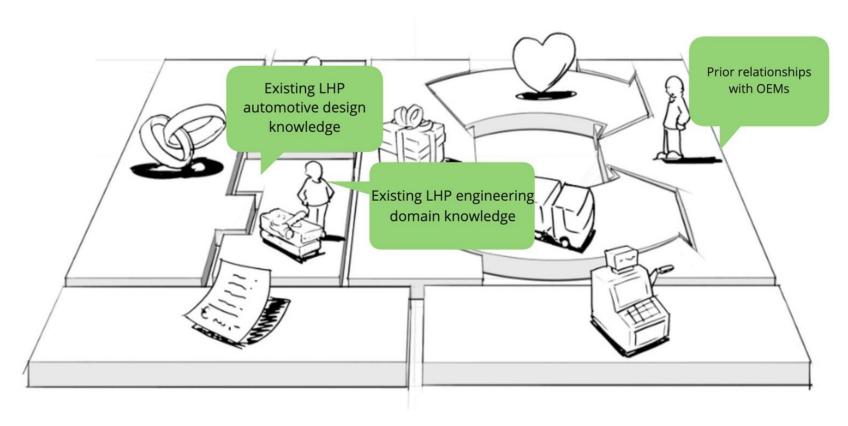




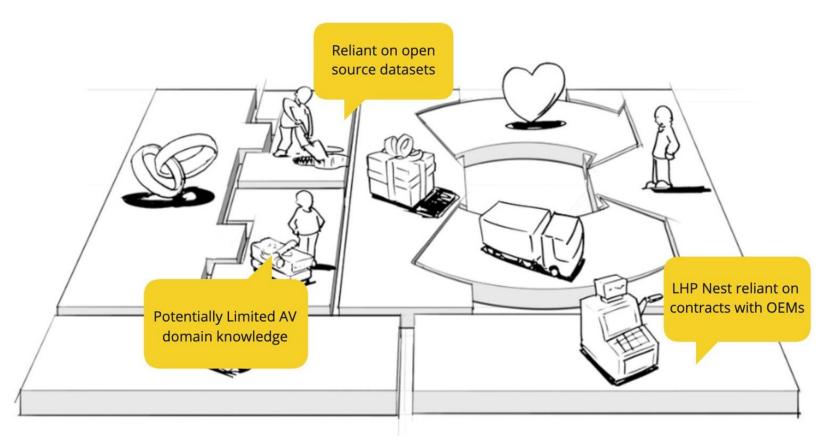




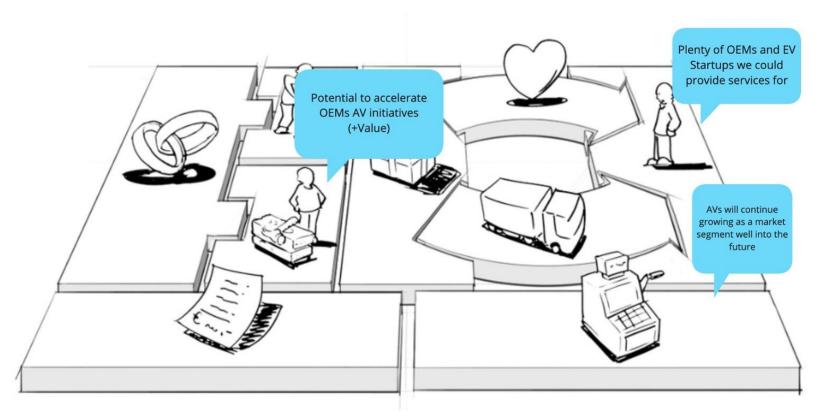
Strengths



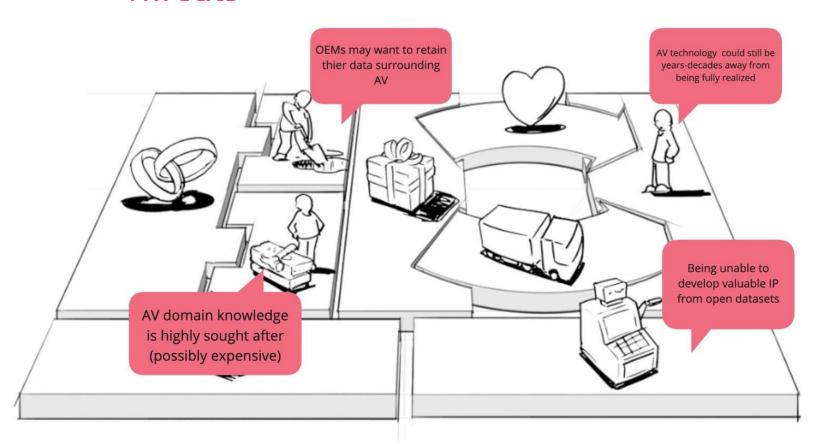
Weakness



Opportunities



Threats





Leveraging existing LHP business segments, alongside new talent and knowledge, to drive a cutting edge transformation service through incubation-project SCOPE.

Sensor Combinatorics and Optimal Positioning Ecosystem design.

Thank You.

Questions?

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