

Build high-quality training datasets for autonomous driving



## **About Playment**

Playment is a complete solution to build highly accurate 2D & 3D training datasets at scale. We combine faster annotation tooling, trained workforce, data management and automation features to reduce labeling costs upto 70%.

- 1. Incorporated in 2015, with offices in San Francisco, USA and Bangalore, India
- 2. 100+ employees, with world-class engineers from IITs and NUS
- 3. Managed workforce of 25K annotators
- 4. Extensive domain expertise in autonomous driving and computer vision
- 5. Trusted by 100's of computer vision and perception teams across the world

#### **R&D Partnerships with**











#### Backed by







### 30+ Customers across 7 countries

#### **OEMs / Tier 1s**

















#### **Technology Pioneers**





\*\* Postmates













"Playment's quality annotations helped us focus our efforts towards building perception system for our robots. Their flexibility to seamlessly incorporate our feedback and evolving requirements have made them a trusted partner.

**Iack Guo** 

Software Engineer, Nuro

"Quality annotations by Playment have helped us to achieve higher accuracy of our models in a very short time. Flexible solutions, QA process and dedicated project manager helped us to have a good peace of mind. Annotation work was offloaded in the true sense.

Abhishek Gupta

Machine Learning Specialist, HELLA India Automotive

## **Hurdles in building labeled datasets**

#### Technology.

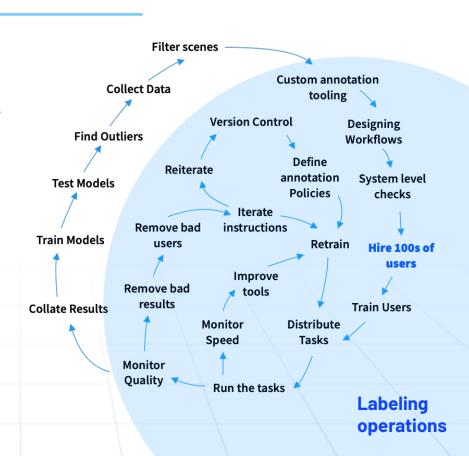
Deploy dedicated software development team to build and maintain data labeling stack.

#### Operations.

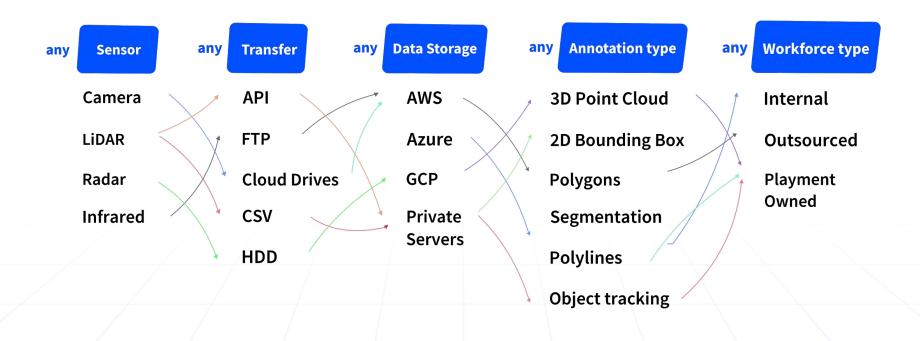
Hire, train and manage 100s of annotators.

#### Expertise.

Maintain high labeling accuracy comes extensive experience from labeling various scenarios.



## Support for all data labeling challenges

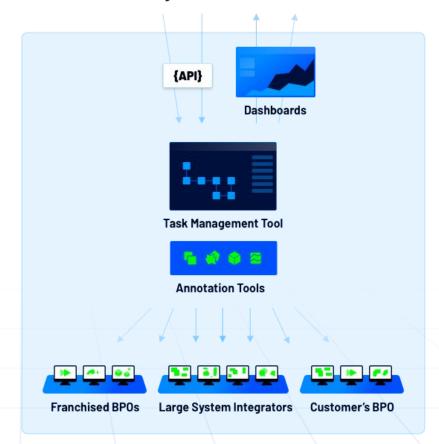


We've got you covered.

# We provide fully managed solution for labeling operations

ML engineers can focus on their core jobs rather than project managing the data workflows.

#### **Playment Customers**

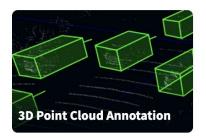


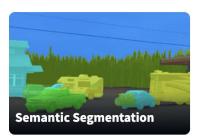
## Al powered tooling for all AV use cases

**Annotation Tools** 

**Labelling Ops Software** 

**Customer Tools** 

















Full suite of annotation tooling across sensors. Sophisticated UX + AI assistance to increase productivity of labellers.

## Middleware to manage large projects at scale

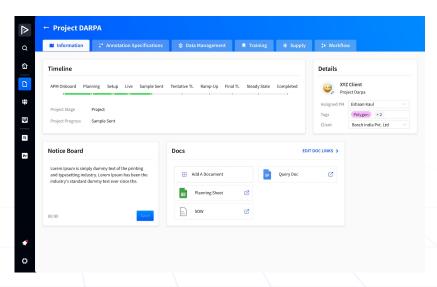
**Annotation Tools** 

Labelling Ops Software

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Internal tooling to manage workforce & large scale projects. 1 PM can handle 1000 remote workforce.

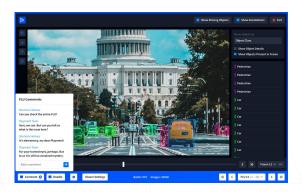
## Integrating customer data pipeline

**Annotation Tools** 

**Labelling Ops Software** 

**Customer Tools** 

APIs for annotation types



Viewers to visualize the output & QC tooling to check quality.



Customised dashboards with multi-stakeholder view.

## **Stringent quality assurance process**

- **Stage 1.** Define quality metrics
- **Stage 2.** Create project specific training material
- **Stage 3.** Qualification of annotators
- Stage 4. Multi-check QC workflows

(With automated heuristic checks & maker-checker model)

- **Stage 5.** Final manual QC on stratified sample
- **Stage 6.** Customer sampling QC with QC tools
- **Stage 7.** If quality metrics are met, export and train your model

Else, enable rework flow.

(Version control for change in annotation policies)

## The Playment difference

#### **Transparent quality**

Playment has customer QC tools that allow clients to check quality, visualize our annotations and make comments directly on the annotations they receive.

#### **Customization**

Because we work with enterprises, we are flexible on input/output of data, data storage, different workforce, data transfer, and different workforce options.

#### **Playment Platform-as-a-service**

Playment licenses out our tooling for companies that have access to their own workforce or a strong need to ensure data privacy.

#### **Optimized annotation tools**

We work closely with our annotators to build tools that are optimized for them which facilitates faster high quality labeling and therefore lower costs to you.

## **Future Roadmap**

