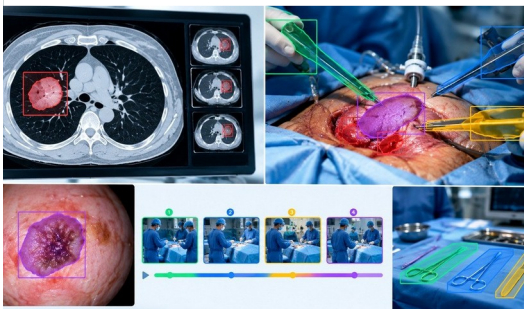


Data Services

AI Data Annotation • Quality Control
• Specialized Dataset Support

Complex, real-world data — from pixel-accurate segmentation to sequence-level tracking and domain-specific quality control.



Medical & Surgical

Segmentation • instruments • anatomy



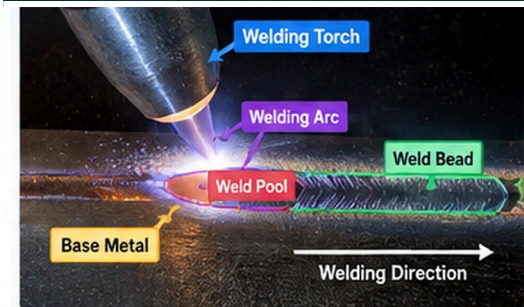
Video Tracking

Frame-to-frame • IDs • attributes



Geospatial

Polygons • boundaries • aerial imagery



Industrial / Welding

Fine boundaries • defects • components



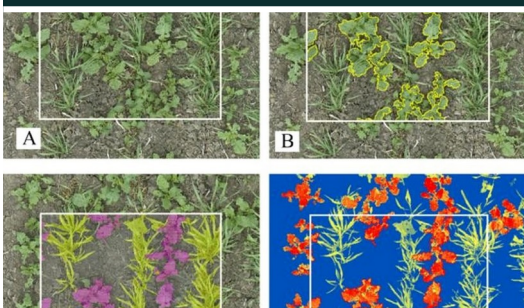
Transportation

Polylines • lanes • infrastructure



Electrical & Utilities

Components • utility assets • complex cases



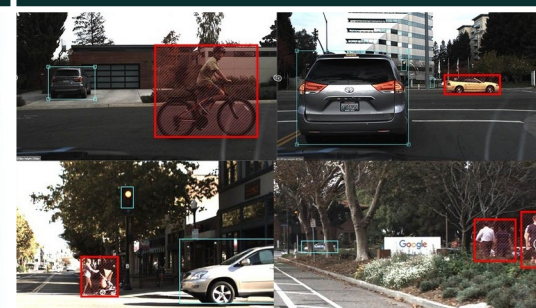
Agriculture

Crop detection • disease • counting



Retail & Warehousing

Polygons • instance labels • cluttered scenes



CCTV & Surveillance

People • vehicles • frame-level tracking

DEDICATED QC

Independent review, error analysis & rework verification

TEMPORAL CONSISTENCY

Tracking IDs, attributes & frame-to-frame logic

EDGE CASES

Guideline interpretation & complex-case documentation

ADAPTABLE WORKFLOWS

Client tools, ontologies, review rules & platforms

AI-ASSISTED, HUMAN-VERIFIED WORKFLOWS

Interpolation • SAM-assisted segmentation/tracking • SAM 3 where appropriate • Human QC remains the final gate.

Share your guidelines, ontology and a sample batch: ops@decodingbits.com

From raw data to AI-ready datasets

Annotation, independent QC, edge-case handling and workflow adaptation — in one delivery model.

01

ANNOTATE

Image, video, text and audio labeling; boxes, polygons, polylines, segmentation masks, keypoints, classification and attributes.

02

QUALITY CONTROL

Independent review for missing/incorrect labels, boundary accuracy, tracking consistency, attributes, guideline compliance and rework.

03

SPECIALIZED DATA

Medical & surgical, industrial & welding, geospatial, agriculture, transportation, electrical infrastructure, retail and CCTV.

Core techniques

Computer Vision

Bounding boxes • polygons • polylines • masks • keypoints • classification

Video Understanding

Tracking • sequence annotation • dynamic attributes • temporal events • interpolation

NLP / Text

Classification • NER • entity labeling • intent • sentiment • content labels

Audio

Classification • speech segmentation • timestamps • sound events • transcription

Quality Systems

Sampling • edge cases • performance review • time-per-task • QC reporting

Platforms

Encord • CVAT • Label Studio • Supervisely • Roboflow Annotate • client platforms

DELIVERY MODEL

Guideline-Driven, Tool-Agnostic Workflow

We adapt to each client's ontology, guidelines, platform, review process and quality threshold.

01

UNDERSTAND

Review guidelines, ontology, examples, edge cases and acceptance criteria.

02

CALIBRATE

Align on representative cases; resolve ambiguity before scale-up.

03

ANNOTATE

Execute manually or with suitable semi-automated acceleration; maintain standards.

04

QUALITY REVIEW

Independent QC of labels, boundaries, tracking, attributes and guideline compliance.

05

REWORK & VERIFY

Correct rejected work, verify fixes and check for repeated error patterns.

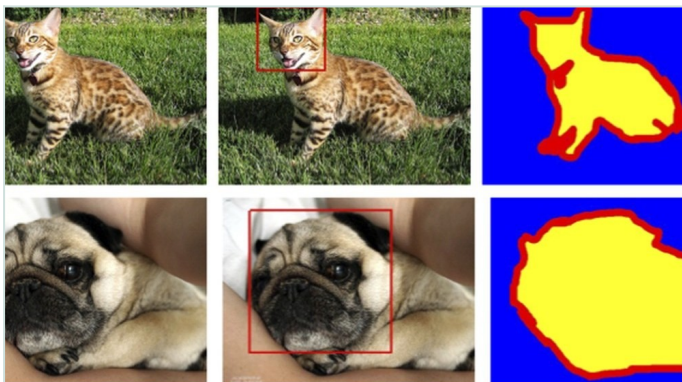
06

REPORT & IMPROVE

Track quality trends, edge cases, productivity indicators and guidance updates.

Image Annotation & Segmentation

Detection, segmentation, infrastructure and product/warehouse use cases.



Segmentation masks

Pixel-level object boundaries for computer vision tasks.



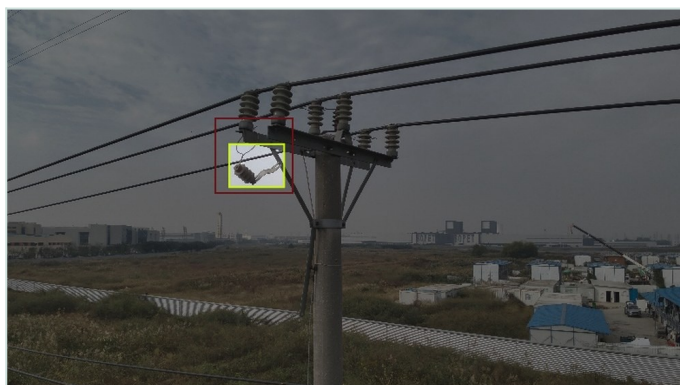
Warehouse / retail objects

Precise polygon and instance-level labeling in cluttered scenes.



Road & infrastructure

Polylines and object annotation for lanes, road edges and vehicles.



Electrical components

Component detection, partially visible objects and complex-case review.

TECHNIQUES WE SUPPORT

Bounding boxes • polygons • polylines • segmentation masks • keypoints • image classification • object classification • static/dynamic attributes

Semi-automated acceleration — applied selectively

INTERPOLATION

Useful when an object moves predictably between keyframes. It reduces repetitive manual placement, but intermediate frames still require review.

SAM WORKFLOWS

Promptable segmentation can speed mask creation and, depending on implementation, support object propagation/tracking. Human correction remains essential for difficult boundaries and occlusions.

SAM 3

Can use text or visual prompts to detect, segment and track matching objects across images or video. Suitability depends on the task, data, setup and required ontology.

AI-assisted, human-verified: human QC remains the final gate.

TEMPORAL DATA

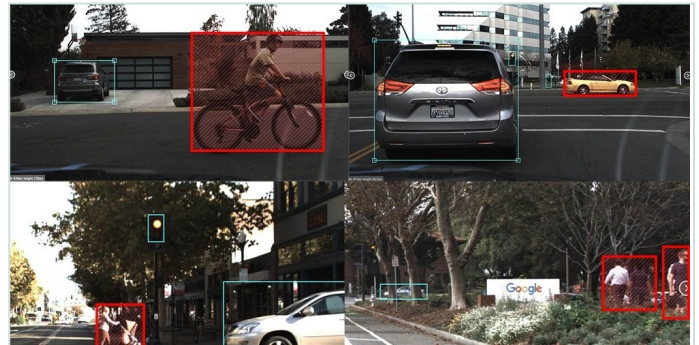
Video Annotation & Object Tracking

Sequence-level accuracy: identities, attributes and boundaries must remain consistent frame to frame.



Multi-object tracking

Maintain identities as objects move, disappear, reappear or overlap.



Transportation & surveillance

Frame-level annotation for people, vehicles and infrastructure.

What we review across sequences

Object identity & tracking IDs

Annotation drift & missing frames

Start/end frame validation

Dynamic attributes & events

Mask/boundary stability

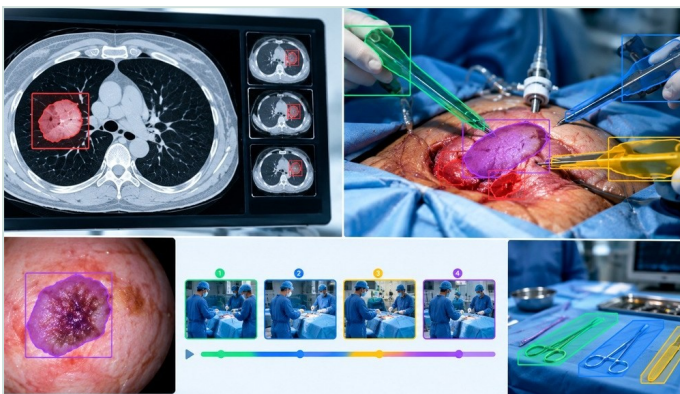
Movement logic & interpolation accuracy

Human review remains essential around occlusion, deformation, entry/exit events and non-linear motion.

SPECIALIZED DOMAIN

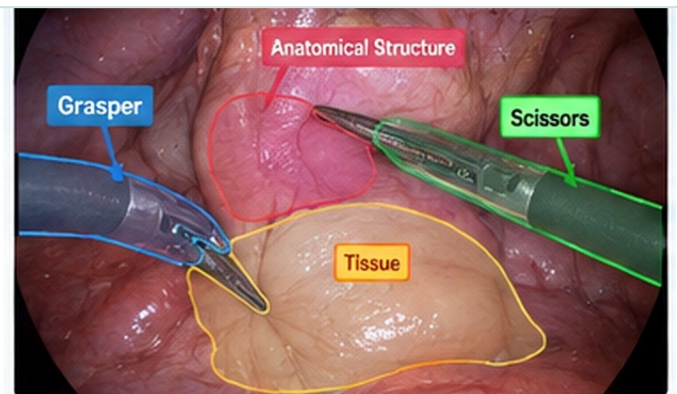
Medical & Surgical Data Annotation

High-attention annotation and QC for medical imagery and procedural video.



Medical visual annotation

Medical images, procedures, instrument recognition and event understanding.



Surgical scene understanding

Instruments, anatomical structures, segmentation and dynamic attributes.

ANNOTATION

Surgical instruments • anatomical structures • procedures • interactions • boxes • polygons • masks • frame-by-frame sequences

TRACKING

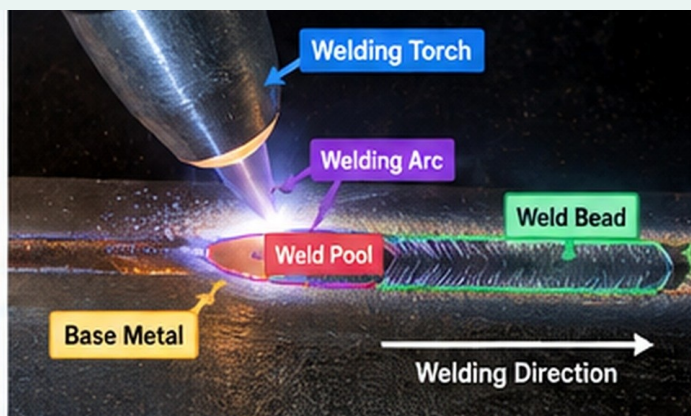
Medical object localization • instrument movement • dynamic attributes • interpolation • sequence consistency

QC

Instrument verification • boundary accuracy • mask review • attribute checks • event verification • ambiguous-case documentation

Industrial, Geospatial & Agricultural Data

Domain-aware annotation where fine details and boundary consistency matter.

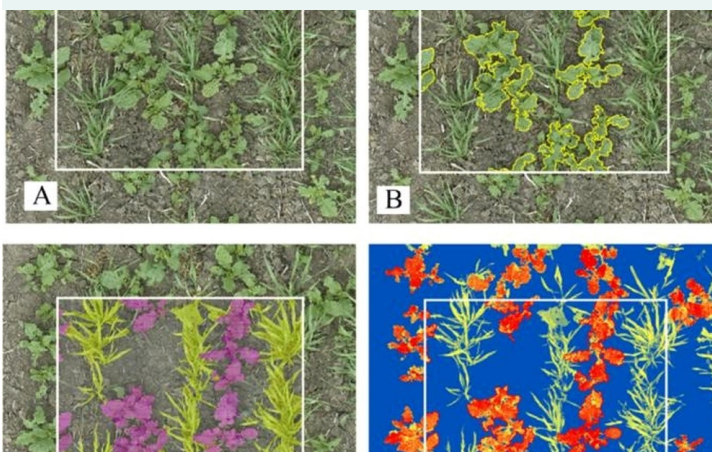
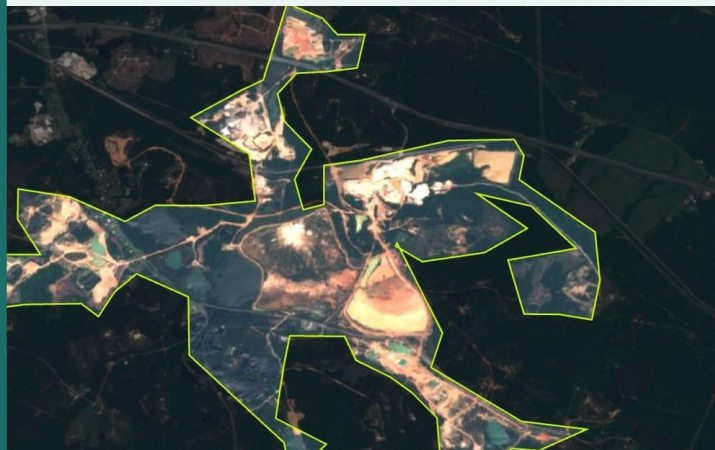


Welding & industrial

Torch, arc, weld bead, bevel regions, defects and industrial components.

Geospatial annotation

Roads, buildings, land features, boundaries, routes, polygons and satellite/aerial imagery — including building footprints, land boundaries and remote visual datasets.



Agriculture & AgriTech

Crop detection, plant identification, disease classification, pests, segmentation and counting.

OTHER SUPPORTED DOMAINS

Transportation & trucking • electrical infrastructure • retail & warehousing • CCTV & surveillance • manufacturing • robotics • remote sensing

Text, Audio & Document Data

Structured labeling for language, audio and document-centric AI workflows.

TEXT ANNOTATION

- Text classification & categorization
- Named Entity Recognition / entity labeling
- Intent & sentiment annotation
- Content and attribute-based labeling

AUDIO ANNOTATION

- Audio classification
- Speech segmentation & speaker identification
- Timestamp labeling & sound events
- Transcription and attribute-based labeling

QC FOCUS

- Incorrect/missing labels
- Category consistency
- Timestamp & speaker errors
- Transcription and guideline compliance

182 Palms St., Brooklyn, NY
555 142 2626
info@thezingcafe.site.com

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DESCRIPTION	UNIT COST	QTY	AMOUNT
Colombia single origin	\$7.50	12	\$90
Brazil single origin	\$8.00	12	\$96
SUBTOTAL			\$186

Document / structured visual data

Region-level labeling and structured extraction support for document AI use cases.

One quality framework across visual, language, audio and document workflows.

CORE DIFFERENTIATOR

Dedicated Quality Control

Annotation and QC are separate functions: one creates labels; the other independently verifies accuracy, consistency and guideline alignment.

ANNOTATION
Creates the labels



INDEPENDENT QC
Verifies accuracy, consistency and guideline alignment



Annotation review

Detect missed objects, incorrect labels, boundary issues, duplicates and inconsistent decisions.

QC coverage

Annotation review	Missing labels, wrong classes, inaccurate boxes/polygons/masks, attributes and duplicates.
Video QC	Tracking IDs, drift, missing frames, movement, mask changes and temporal consistency.
Specialized QC	Medical/surgical, welding/industrial, text/audio and domain-specific rules.
Edge-case management	Document unclear cases, compare examples, raise client questions and record final decisions.
Sampling & reporting	Random/percentage/range/high-risk sampling, rejected-task re-review and final validation.

Quality intelligence

ANNOTATOR PERFORMANCE

Accuracy, repeated errors, rejection patterns, consistency, rework and quality trends.

TIME-PER-TASK

Task/frame/review time, unusual durations, productivity outliers and workflow bottlenecks.

QC REPORTING

Accepted/rejected/corrected tasks, error types, reviewer comments, edge cases and trends.

Why clients use this model

QUALITY FIRST

Dedicated QC rather than annotation-only delivery.

SEQUENCE AWARE

Consistency across frames, tracks and dynamic attributes.

COMPLEX-CASE READY

Document and resolve ambiguous or unusual examples.

WORKFLOW FLEXIBLE

Adapt to client platforms, guidelines and review processes.



DECODINGBITS

CLEAN • CONSISTENT • AI-READY DATA

Data annotation, quality control and specialized dataset support for AI development.

Let's talk about your data: ops@decodingbits.com

Share your guidelines, ontology and a sample batch — we'll come back with a recommended workflow, QC approach and next steps.