

VISUAL AGENT STUDIO

Scale visual AI across your network operations.
Deploy instantly. Configure with ease. No disruption.

Most operators audit only 10 to 15 percent of completed work today. Without reliable field validation, the rest remains exposed:

Repeat Visits Rework drives up cost per premise and delays revenue	Delayed Revenue Validation bottle necks slow billing and customer connection	Degraded Data Network records drift from reality, limiting automation	Day-One Churn Failed activation damages experience from the start
--	--	---	---

With Visual Agent Studio, operators achieve:

100%

automated validation
achievable where deployed

20M+

field jobs processed
per year

20+

automated checks
per agent deployed

What is Visual Agent Studio?

IQGeo Visual Agent Studio is a library of reusable, configurable AI agents built specifically for telecom and utility networks. Rather than relying on manual review of field evidence, operators deploy visual agents to automate quality control, validation and documentation at scale.

Three Ways To Deploy Your Agent Library



Pre-Built

Out of the box, immediate value, no setup



Configured

Prompting and examples, no code needed



Advanced

Custom-built for specialized use cases

Four Agents, One Platform

Visual Agent Studio	
Asset Inspection	Turn field photos into structured, searchable records across telecom and utility networks
Drop Installation	Verify completed installation work and provide auditable proof for contractor management
Service Activation	Validate installation readiness and ensure right-first-time service activation
Smart Meter Installation	Validate smart meter installations at scale for compliance, accuracy and auditability

Why Leading Telecom and Utility Operators Choose Visual Agent Studio

COO / Operations - Faster execution with less rework - Improved visibility across the network lifecycle - Reduced operational friction	CFO / Finance - Accelerate revenue realization - Reduce manual audit and revisit costs - Digital audit trail reduces financial exposure	CTO / CIO / Head of AI - No bespoke AI projects or model training - Faster to deploy than build-yourself - Lower TCO and deployment risk	Field & Operations Teams - Structured evidence from field photos - Faster approvals and project closeout - Clear, auditable proof of work
---	--	---	--

ASSET INSPECTION AGENT

Turn field photos into structured, searchable records across telecom and utility networks — new captures and historical libraries.

The Business Challenge

Most operators are sitting on thousands of existing field photos that have never been analyzed. The **Asset Inspection Agent** delivers immediate value by analyzing existing photo libraries on day one, with no field crews required. Beyond that, large inspection programs rely on manual review, making them slow, inconsistent and difficult to scale. Inspection results are not always captured accurately in the system of record, increasing compliance risk. And without reliable asset condition data, operators cannot plan maintenance intelligently or validate network readiness.

How the Agent Works

1	Capture Field teams capture new inspection photos, or the agent ingests existing photo libraries, delivering value immediately on deployment.	2	Analyze Visual AI analyzes each photo to assess asset condition, validate attachments and identify compliance issues at scale.	3	Validate Inspection findings are reviewed efficiently with AI assistance, reducing manual effort and accelerating sign-off.	4	Record Verified asset condition, capacity and compliance data is synchronized into GIS and network inventory systems.
---	---	---	--	---	---	---	---

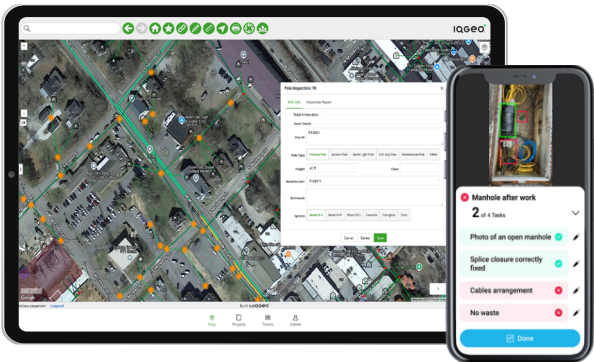
Old Way vs. With Visual Agent Studio

Old Way	VS	With Visual Agent Studio
✗ Thousands of existing photos unused and unanalyzed		✓ Historical photo libraries analyzed from day one
✗ Manual inspection review and photo analysis		✓ Visual AI inspection and validation at scale
✗ Disconnected inspection evidence		✓ Inspection data captured directly in system of record
✗ Inconsistent asset condition records		✓ Trusted, validated asset condition data
✗ High cost and slow inspection programs		✓ Scalable inspections with reduced manual effort

Proven Customer Outcomes

Confirmed results from operators deploying the Asset Inspection Agent:

Outcome	Result
Inspection program costs	Manual review overhead eliminated
Time to insight from existing photos	Immediate, from day one
Asset condition data accuracy	Consistent AI assessment replaces manual checking
Asset turn-up and capacity decisions	Based on verified current condition data
Compliance and audit readiness	Every inspection backed by photo-verified, timestamped evidence



SERVICE ACTIVATION AGENT

Validate installation readiness and ensure right-first-time service activation.

The Business Challenge

Only 10 to 15 percent of fiber customer installations are verified today. Poor or missing photo documentation, manual data entry errors and undetected workmanship defects mean up to 20% of installs fail at service activation. Each failure costs a truck roll, delays revenue and risks day-one churn. Without reliable validation at the point of install, operators cannot ensure right-first-time activation or trigger fair contractor payments.

How the Agent Works

1	Capture Technician captures photos during installation. The agent guides photo quality and completeness in real time.	2	Analyze Visual AI analyzes each photo instantly, validating ONT placement, cabling, labels and workmanship against installation standards.	3	Validate Errors flagged on-site in seconds. Technicians correct issues before leaving, preventing service activation failures.	4	Record Validated installation data and photos are linked to the customer record and work order in Network Manager.
---	---	---	--	---	--	---	--

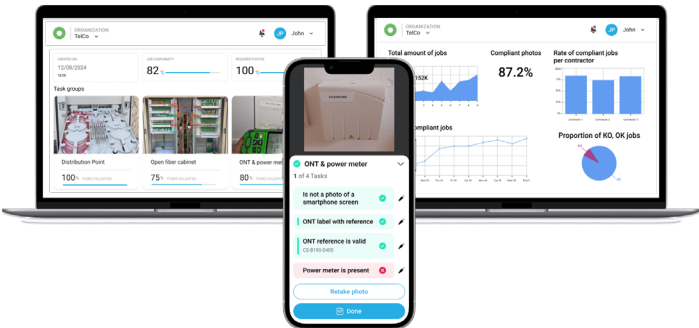
Old Way vs. With Visual Agent Studio

Old Way	VS	With Visual Agent Studio
X Manual verification of a small portion of installations		✓ 100% of customer installations automatically verified with AI
X Data entry errors from manual field reporting		✓ Automated data capture and form filling
X Disconnected inspection evidence		✓ Inspection data captured directly in system of record
X No visibility on contractor work quality		✓ On-site validation prevents service activation failures

Proven Customer Outcomes

Confirmed results from operators deploying the Service Activation Agent:

Outcome	Result
Service activation success rate	Right-first-time rate substantially improved
QA/QC coverage	From 10% to 100% – every installation validated
Failed first-time activations	Down from ~20% baseline
Manual QA and rework costs	Eliminated for validated installs
Contractor billing	Based on AI verified proof of completion
Customer experience	Fewer missed appointments, faster activation



SMART METER INSTALLATION AGENT

Validate smart meter installations at scale for compliance, accuracy and auditability.

The Business Challenge

Utility operators face regulatory deadlines to deploy smart meters at scale. Yet most audit only 10 to 15 percent of installations today. Unexploited photos, manual data entry errors and post-installation quality checks mean defects go undetected until a costly revisit is required. Without reliable validation, operators cannot trigger contractor payments accurately, meet compliance requirements or maintain data integrity in the system of record.

How the Agent Works

1	Capture Technician captures photos. The agent guides photo quality in real time.	2	Analyze AI reads meter data and validates workmanship against quality standards.	3	Validate Errors flagged on-site in seconds. Technicians fix issues before leaving.	4	Record Structured data and audit trail linked to the asset in Network Manager.
---	--	---	--	---	--	---	--

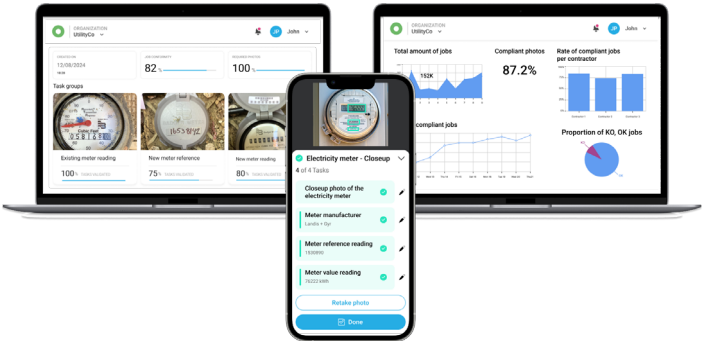
Old Way vs. With Visual Agent Studio

Old Way	VS	With Visual Agent Studio
✗ Manual verification of a small portion of installations		✓ 100% of customer installations automatically verified with AI
✗ Data entry errors from manual field reporting		✓ Automated data capture and form filling
✗ Disconnected inspection evidence		✓ Inspection data captured directly in system of record
✗ No visibility on contractor work quality		✓ On-site validation prevents service activation failures

Proven Customer Outcomes

Confirmed results from operators deploying the Service Activation Agent:

Outcome	Result
QA/QC coverage	From 10–15% sample checks to 100% with every meter validated
Field safety and installation quality	Errors corrected on-site before technicians leave
Failed first-time activations	Prevented at source
Manual QA and rework costs	Eliminated for validated installs
Contractor billing	Triggered on verified completion
Customer experience	Complete and on-demand: regulatory and operational



DROP INSTALLATION AGENT

Verify completed drop installation work.
Deliver auditable proof for contractor management.

The Business Challenge

Drop installations are one of the highest-volume, highest-risk stages in fiber network delivery. A mix of internal crews and contractors with manual back-office close-out review means defects are rarely caught at the point of work. Failures emerge only after crews have left, driving costly truck rolls, rework and service activation delays. Without automated validation, operators can't enforce consistent standards, produce reliable as-built records or trigger fair contractor payments.

How the Agent Works

1	Capture Field crew captures close-out photos: conduit, trench depth, NID placement, ONT transition and site restoration.	2	Analyze Visual AI validates each photo: conduit presence, trench depth, fiber dressing, NID security and site restoration.	3	Validate Non-conformances flagged on-site in seconds. Crews fix issues before leaving. No costly return visit.	4	Record Verified evidence and as-built data linked to the work order and asset record in Network Manager.
---	--	---	--	---	--	---	--

Old Way vs. With Visual Agent Studio

Old Way	VS	With Visual Agent Studio
✗ Manual close-out review in the back office		✓ Real-time photo validation at point of installation
✗ Defects found only after crews have left		✓ Non-conformances flagged on-site before crews leave
✗ Incomplete documentation delays contractor payment		✓ Contractor payment based on verified proof of work
✗ No consistent standard across crews and contractors		✓ Every installation checked against the same standard
✗ Undetected defects cause service activation failures		✓ Installation quality validated before activation begins

Proven Customer Outcomes

Expected results from operators deploying the Drop Installation Agent:

Outcome	Result
Installation defect detection	On-site, before crews leave
Documentation quality	Complete and validated at point of work
Contractor payment	Based on verified proof of work
Service activation success	Improved through pre-activation validation
Audit and compliance readiness	Photo-backed evidence on every job

