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ALWAYS-ON AI

ZUKUNFT TELERADIOLOGIE

KI im Netzwerk-Einsatz
Aidoc <> reif & möller

Alexander Böhmcker

VP Europe

8 Dec 2022

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THANK YOU!!

Aidoc - Rapid Growth with Proven Results

10 CE Marks
(14 UKCA)

900 +
Medical Centers

400 Employees
75% in AI & Dev

>50
Abstracts & Papers

UZA University of Antwerp · UZ GENT · Universiteit Gent · reif & möller Netzwerk für Teleradiologie · INSELSPITAL Universitätsspital Bern Hôpital universitaire de Berne · Bravis ziekenhuis · Universitair Ziekenhuis Brussel · HUG Hôpitaux Universitaires Genève · Yale NewHaven Health · TMC On-Call · IMADIS Teleradiologie · Universitätsspital Basel · Cedars Sinai · Unfallkrankenhaus Berlin · Region Halland · Topzorg voor uw levenskwaliteit · zgt · EverlightRadiology · Rigshospitalet · sana · spitalthun · Netherlands Cancer Institute Antoni van Leeuwenhoek

Quality assurance

Unfallkrankenhaus Berlin

Reduced Turnaround Time

University of Rochester

Reduction in LoS

Cedars Sinai · Yale NewHaven Health

Leading Provider of AI for Enterprise Imaging

Radiology Tailored AI Modules

Quality assurance

Prioritize patients

Increase efficiency

10 radiology AI modules

Cross-Specialty Care Coordination Solutions

Get the right patients and data, in the hands of the right clinicians

2 AI-triggered workflows

aiOS™ & Platform

Single interface point

3rd party products

7 partners

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AuntMinnie.com
THE BEST OF RADIOLOGY
WINNER

How It Works – Always on AI

Patient scanned

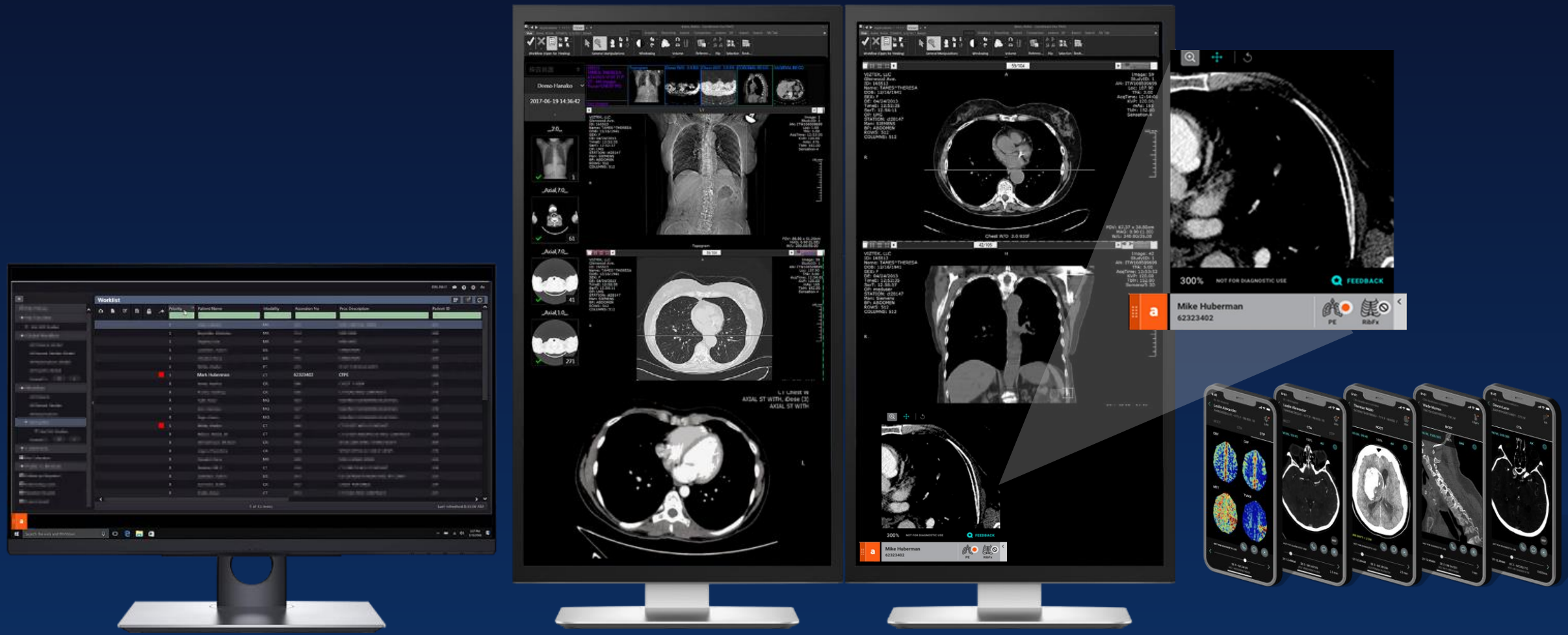
AI analyzes exams

Detects abnormality and prioritizes case

Notify seamlessly in the workflow

2 - 6 minutes

Broad Set of Notification Options



Worklist Integration

Radiology Workstation

Smartphone App

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Comprehensive Solution Portfolio + AI OS

Commercially Available (CE)

	Neuro (CT)	Bone (CT & XR)	Vascular (CT)	Abdomen (CT)	Chest (CT & XR)	Breast (2D & 3D)
TIME-SENSITIVE	ICH LVO CT perfusion*	C-spine fracture Rib fracture	Pulmonary embolism RV/LV ratio*	Intraabdominal free gas	Pneumothorax (XR)	
SAFETY NET	Brain aneurysm	Bone fractures (XR) *	Incidental PE		Lung nodules (CT) Vessel suppression (CT)*	Breast lesion detection *
CARE COORDINATION	Stroke		PERT			

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*** Partners** icometrix imbio ClearRead BY RIVERAIN TECHNOLOGIES SCREENPOINT Medical GLEAMER SUBTLE MEDICAL

Stroke Care Coordination

Futureproof aiOS™ Platform

Aidoc Algorithms

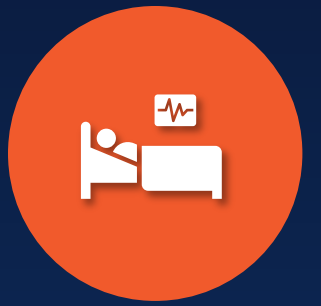
- icometrix
- imbio
- SCREENPOINT Medical
- Riverain TECHNOLOGIES
- SUBTLE MEDICAL
- GLEAMER

Value Contribution of Aidoc Solutions

QUALITY ASSURANCE

PRIORITIZING URGENT CASES

INCREASE EFFICIENCY



IMPROVING OUTCOME

Quality Assurance through AI

	Institution	Country	% of enhanced detection with AI	Link
ICH	reif & möller NETZWERK FÜR TELERADIOLOGIE	Germany	5%	In Process
PE	IMADIS TÉLÉRADIOLOGIE	France	10%	Link to paper
Incidental PE	Region Halland Hallands sjukhus	Sweden	78%	Link to paper
C-spine fracture	isala	Netherlands	16%	Link to abstract
Ribs fracture	Universitätsspital Basel	Switzerland	37%	Link to paper

Case Study: ICH patient that was not triaged

EMERGENCY | MALE | AGE 70

CLINICAL INDICATION: Fell down 5 steps

FINDINGS AS DETAILED IN REPORT:

1. Brain: No evidence of acute intracranial abnormality. Chronic ischemic changes including infarcts, some of which are new
2. No evidence for acute cervical spine fracture or traumatic subluxation.

MISSED DETECTION IMPLICATIONS

Small left temporal subdural hemorrhage was initially missed.

Implication

EMERGENCY | MALE | AGE 70

CLINICAL INDICATION: Fell down 5 steps

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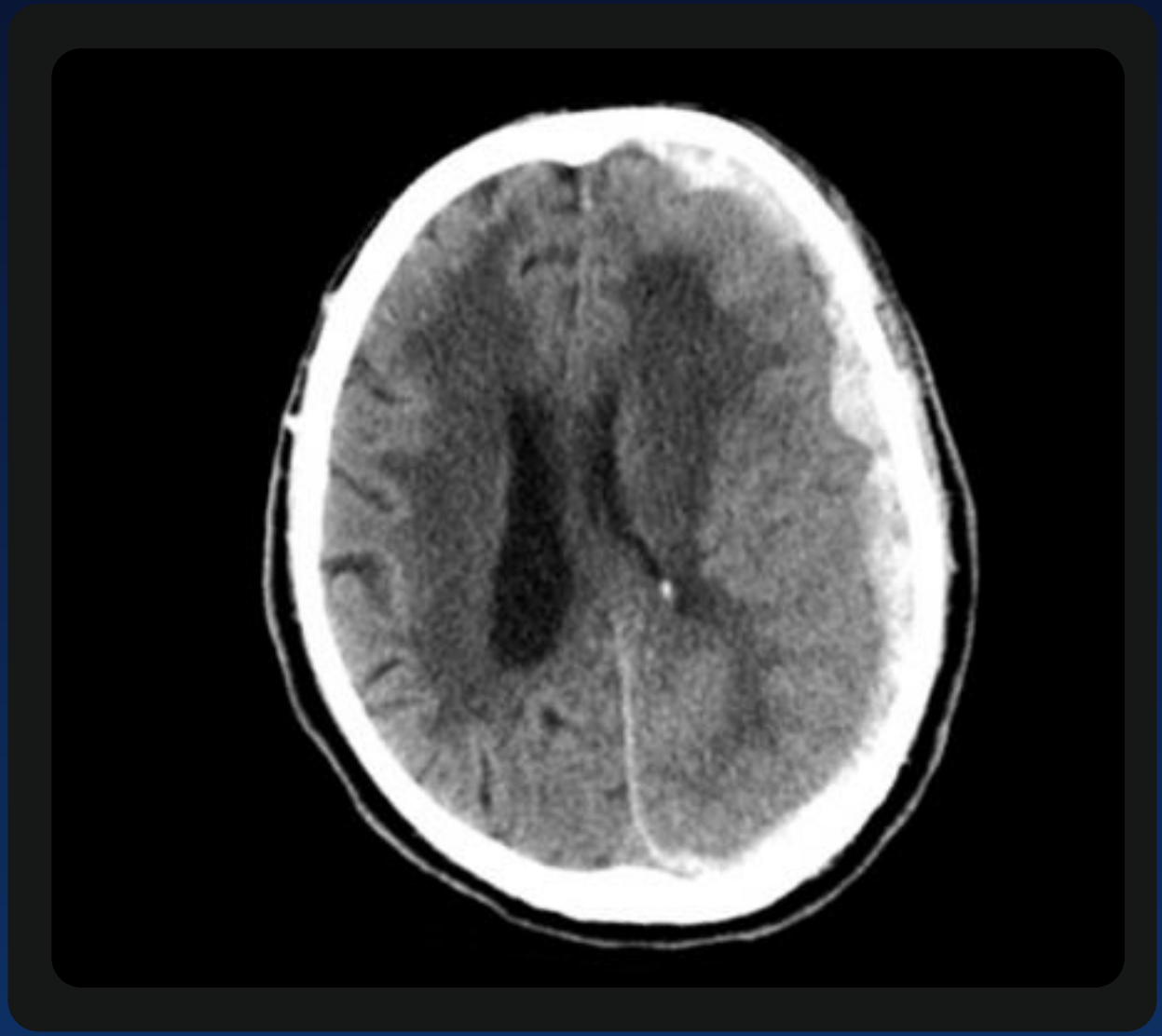
2. No evidence for acute cervical spine fracture or traumatic subluxation.



MISSED DETECTION IMPLICATIONS

Patient came back 6 days later. Interval report noted: Large 12 mm left subdural hematoma extending along the entire left cerebral convexity, with left-to-right midline shift of up to 9 mm.

Implication Cont.

EMERGENCY | MALE | AGE 70

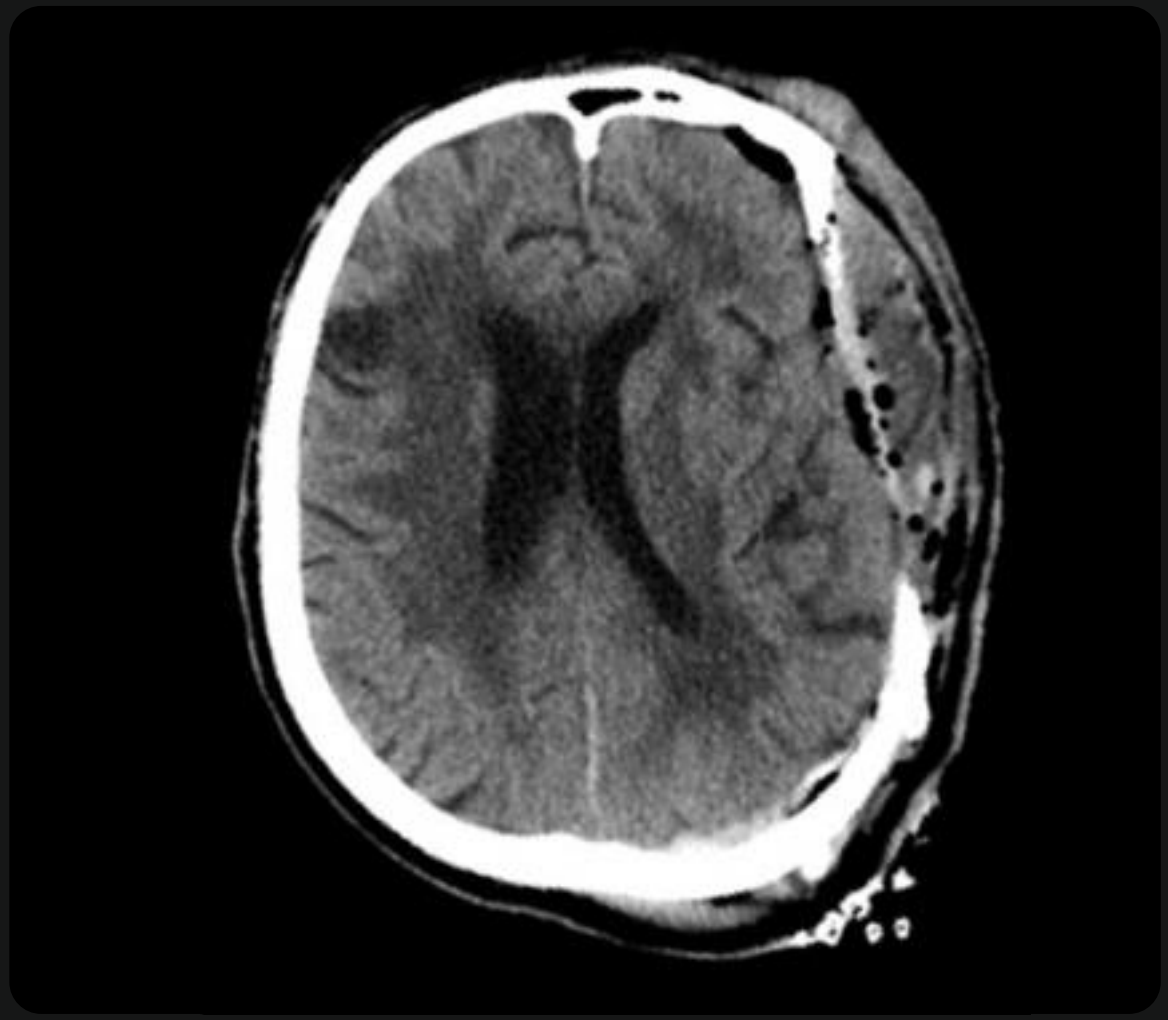
CLINICAL INDICATION: Fell down 5 steps

FINDINGS AS DETAILED IN REPORT:

1. Brain : No evidence of acute intracranial abnormality. Chronic ischemic changes including infarcts, some of which are new
2. No evidence for acute cervical spine fracture or traumatic subluxation.

MISSED DETECTION IMPLICATIONS

Patient was emergently taken for decompressive craniotomy with no change in neurological deficits and lethargy after the procedure.



Prioritizing Urgent Cases

Expedite care for outpatients with acute pathologies

Preventing patients with acute findings from leaving the facility

5:15PM

Outpatient scan

WITHOUT

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5:22PM

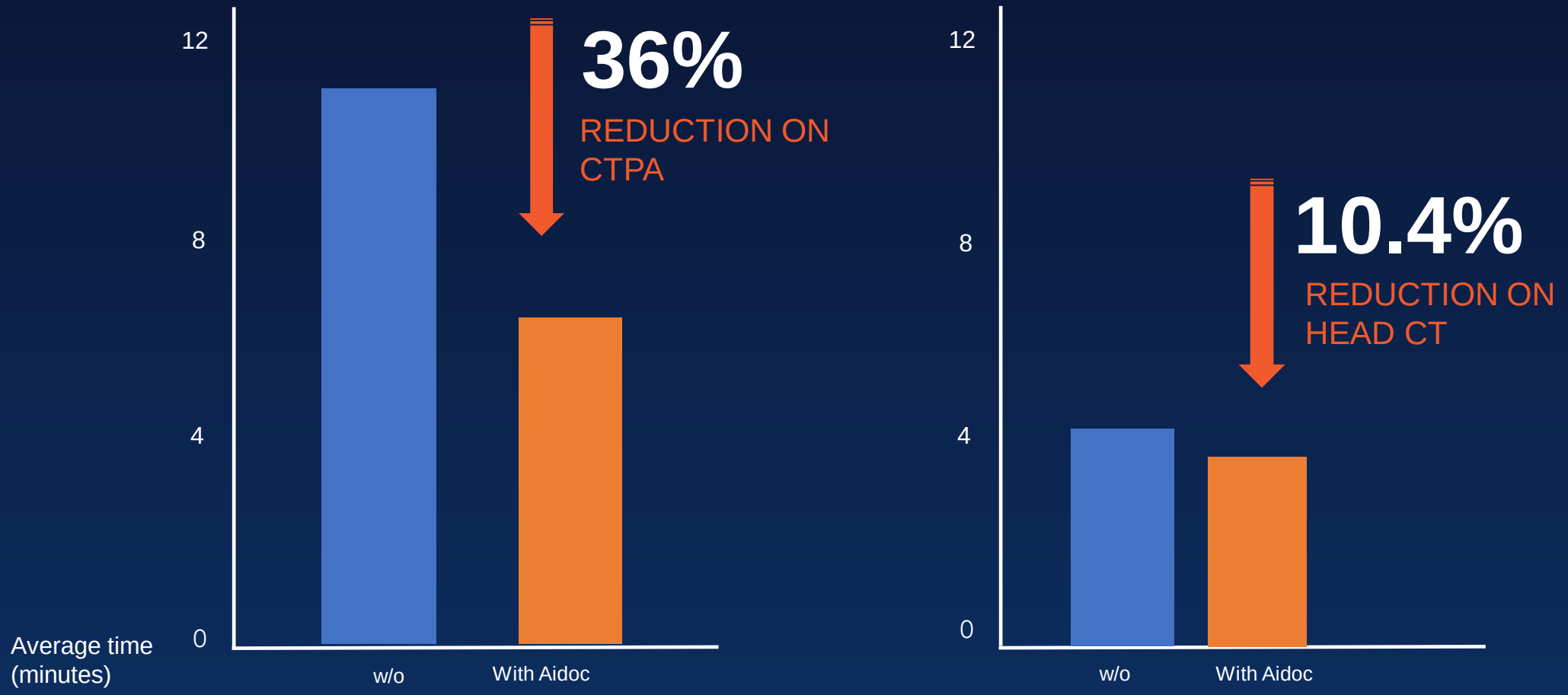
Patient released home

Prioritizing Urgent Cases

Expedite care for outpatients with acute pathologies

Preventing patients with acute findings from leaving the facility

Increasing Efficiency



Cedars Sinai

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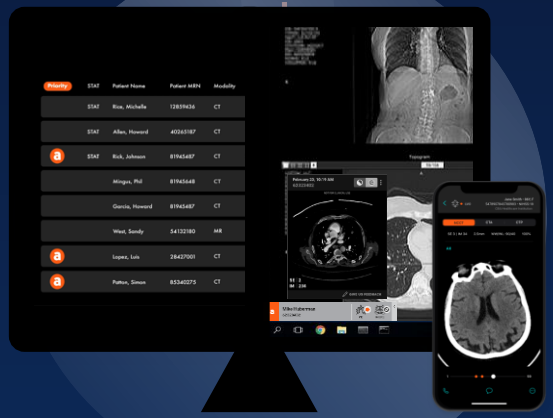
Enterprise AI Partner

COMPREHENSIVE COVERAGE

Solutions for most of the valuable AI use-cases

AI-BASED ORCHESTRATION

Single integration point for all AI, third party or homegrown



OPTIMIZED WORKFLOW

Broad set of notification options to match any workflow

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Thank you.

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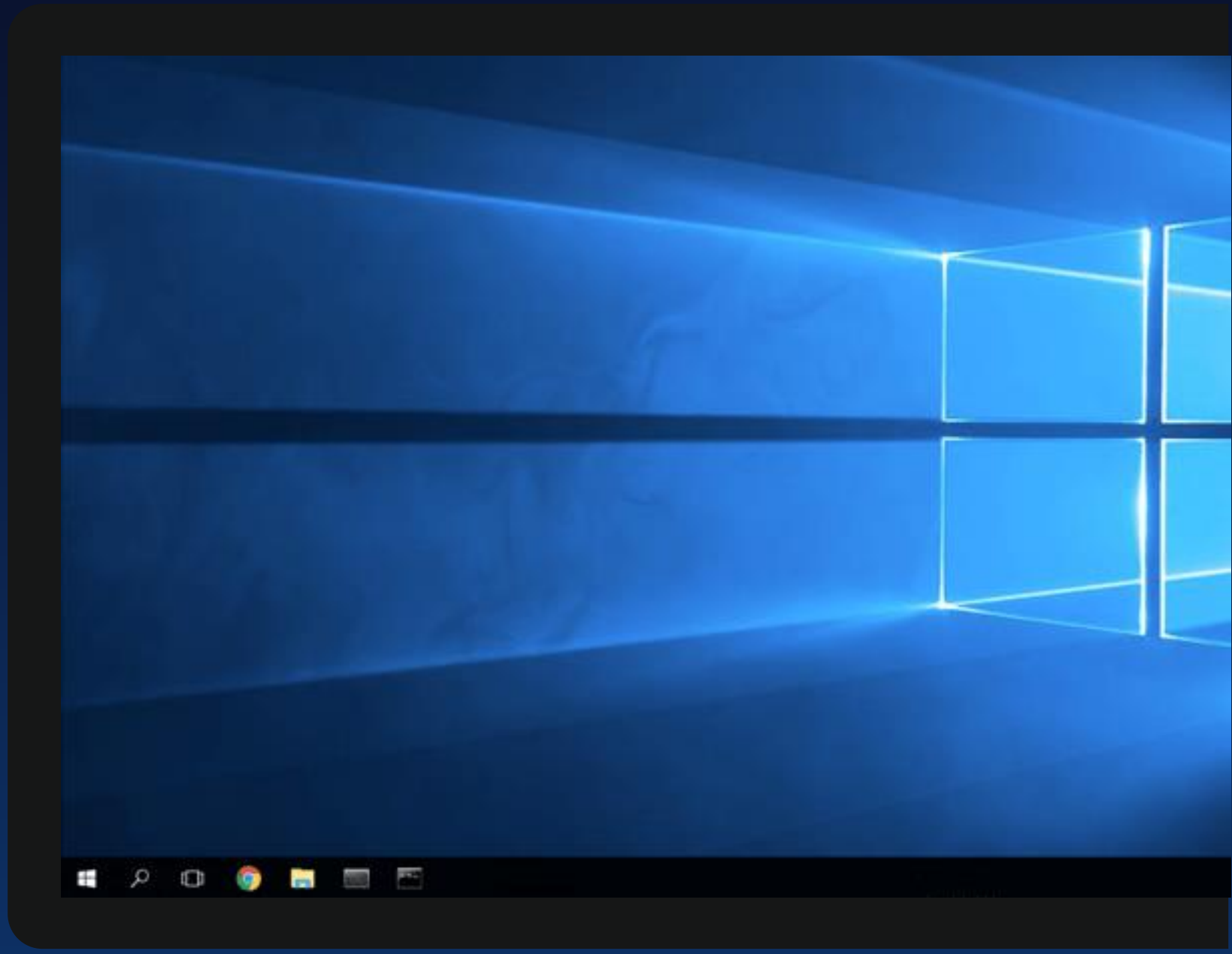
Back up slides

Aidoc Applikation Demonstration

Functionalities:

1. Prioritization of acute cases before reporting
2. AI contextual information during reporting
3. Quality assurance after reporting

1. Prioritization of acute cases



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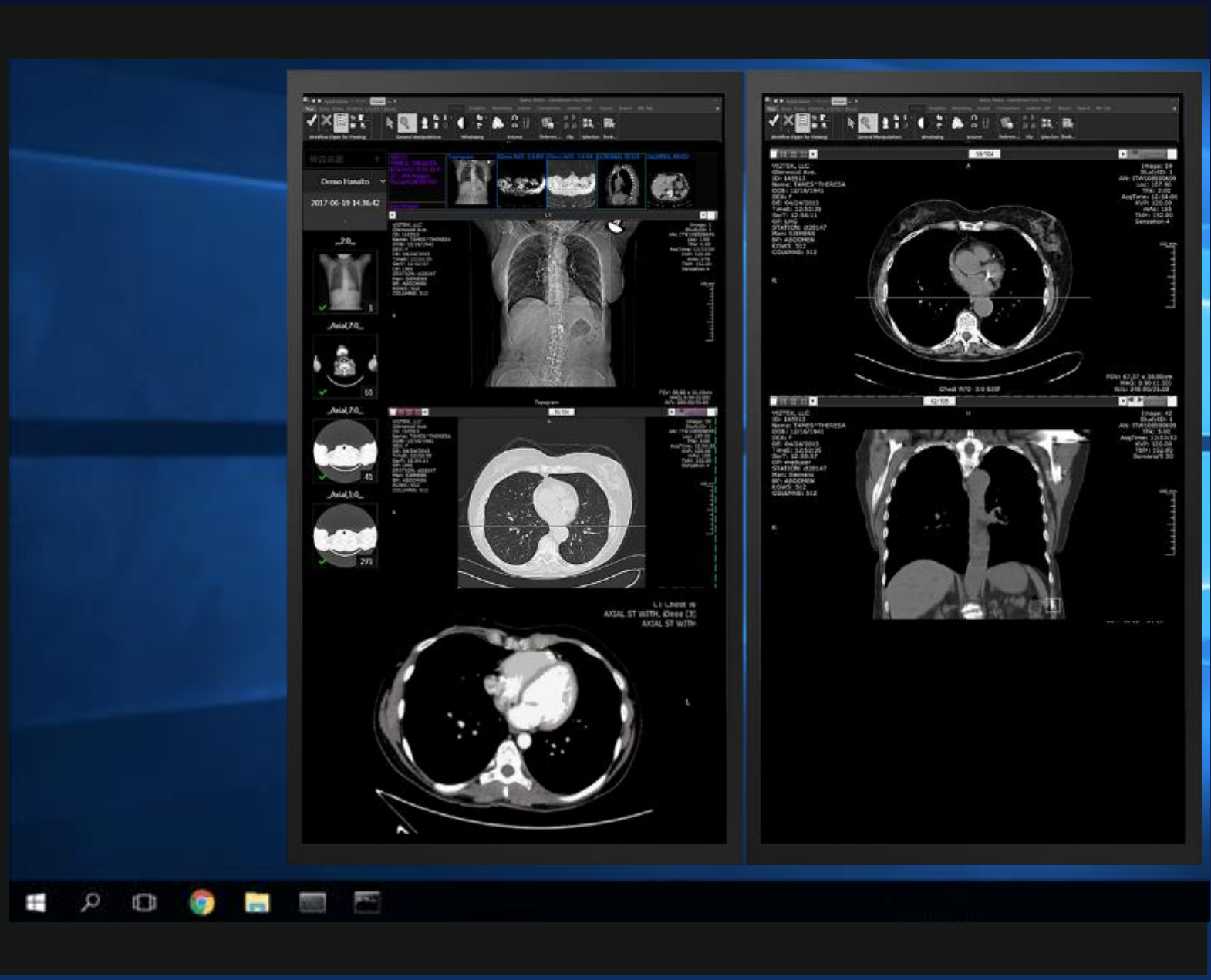
2. AI context information during reporting



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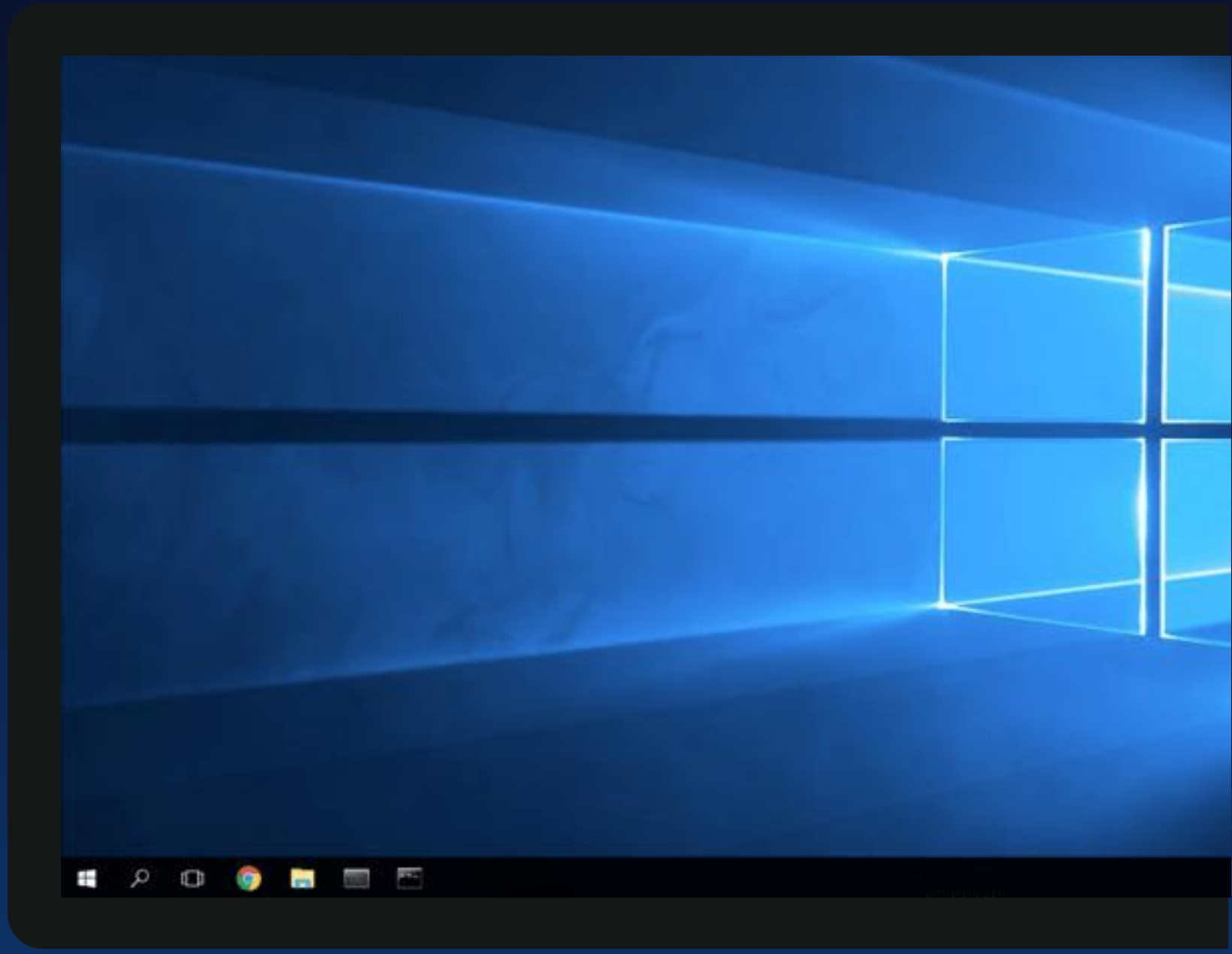
3. Quality assurance after reporting