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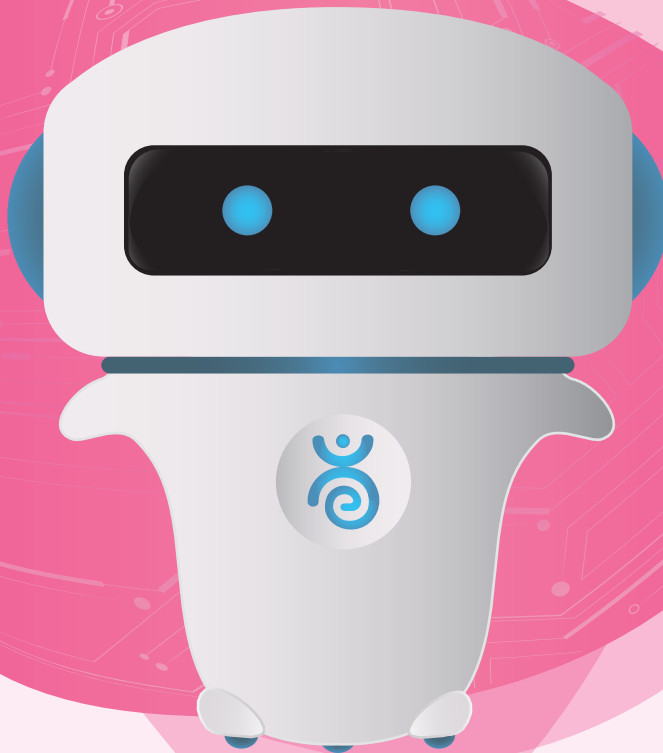Web: www.800ai.com / www.shangyiyun.cn
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Dr. J - Artificial Intelligence Ultrasound Breast Cancer Robot

Breast health safeguard

Breast cancer screening, why AI + ultrasound?

Our solution

Accuracy
Achieved outcomes comparable to those by experienced radiologists

Speediness
AI analysis available immediately

Safety
Non-invasive, painless, and non-radiative

Reliability
Clinical results verified by experts from top-level hospitals

Comprehensiveness
Identify different lesions precisely

Accessibility
Applicable to multiple screening scenarios

Dr. J - Artificial Intelligence Ultrasound

Breast Cancer Robot

Breast cancer has become the world's top malign tumor for women since 2020. Early detection via preliminary screening, the best strategy for combating this disease, long faces the challenges of grassroots availability, accessibility and affordability in resource-constraint countries. "Dr. J," a total solution developed by iCare365 company with AI and ultrasonic technologies integrated, makes possible large scale supply of quality breast cancer screening at communities.

"Dr. J" Highlighted a multi-layer convolutional neural network developed through machine deep learning combined with image analysis technology. It is a novel approach featuring real-time computer analyzing of ultrasonic breast image feed, automatic detecting and labeling of a variety of suspected lesions, and providing diagnosis recommendations. "Dr. J" also supports remote review by radiologists over suspicious images through its integrated cloud platform.

Dr. J: AI solution makes breast cancer screening more Affordable, reliable, and accessible

Our innovative technologies integrated :
AI + ultrasound + big data + cloud computing + internet
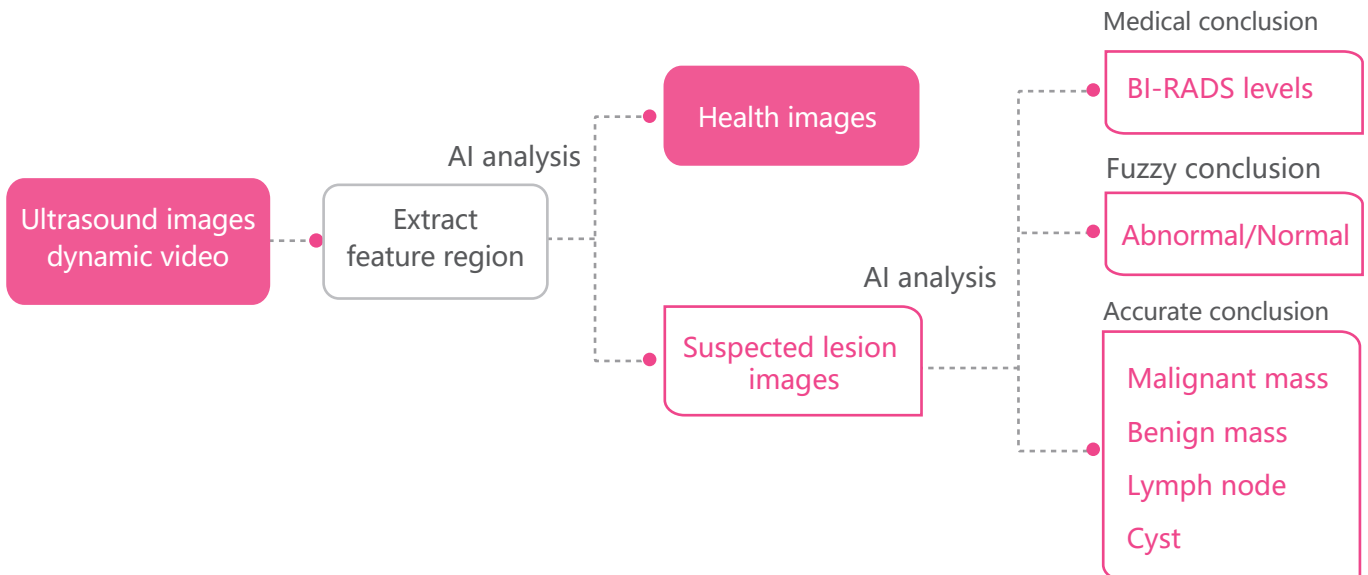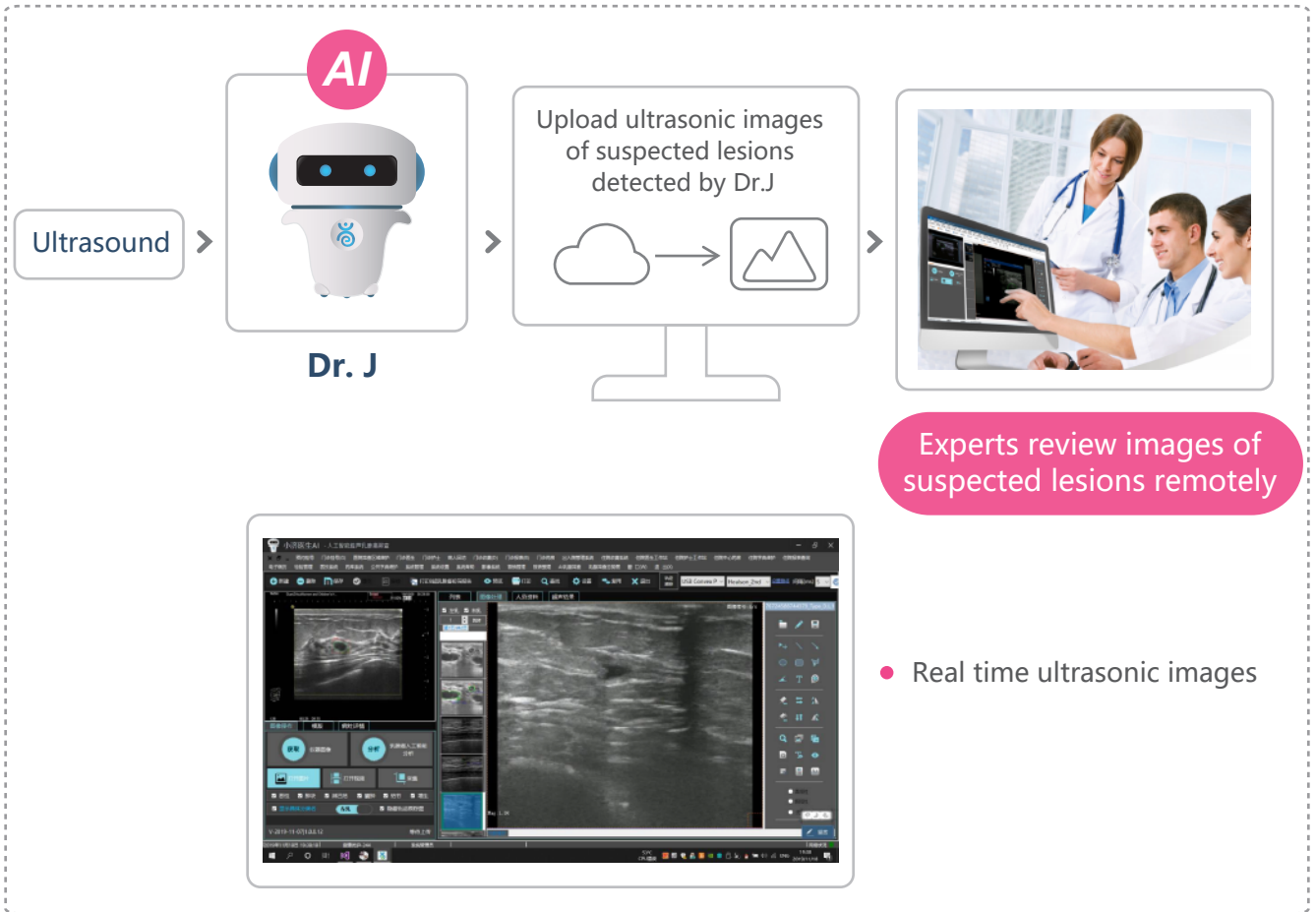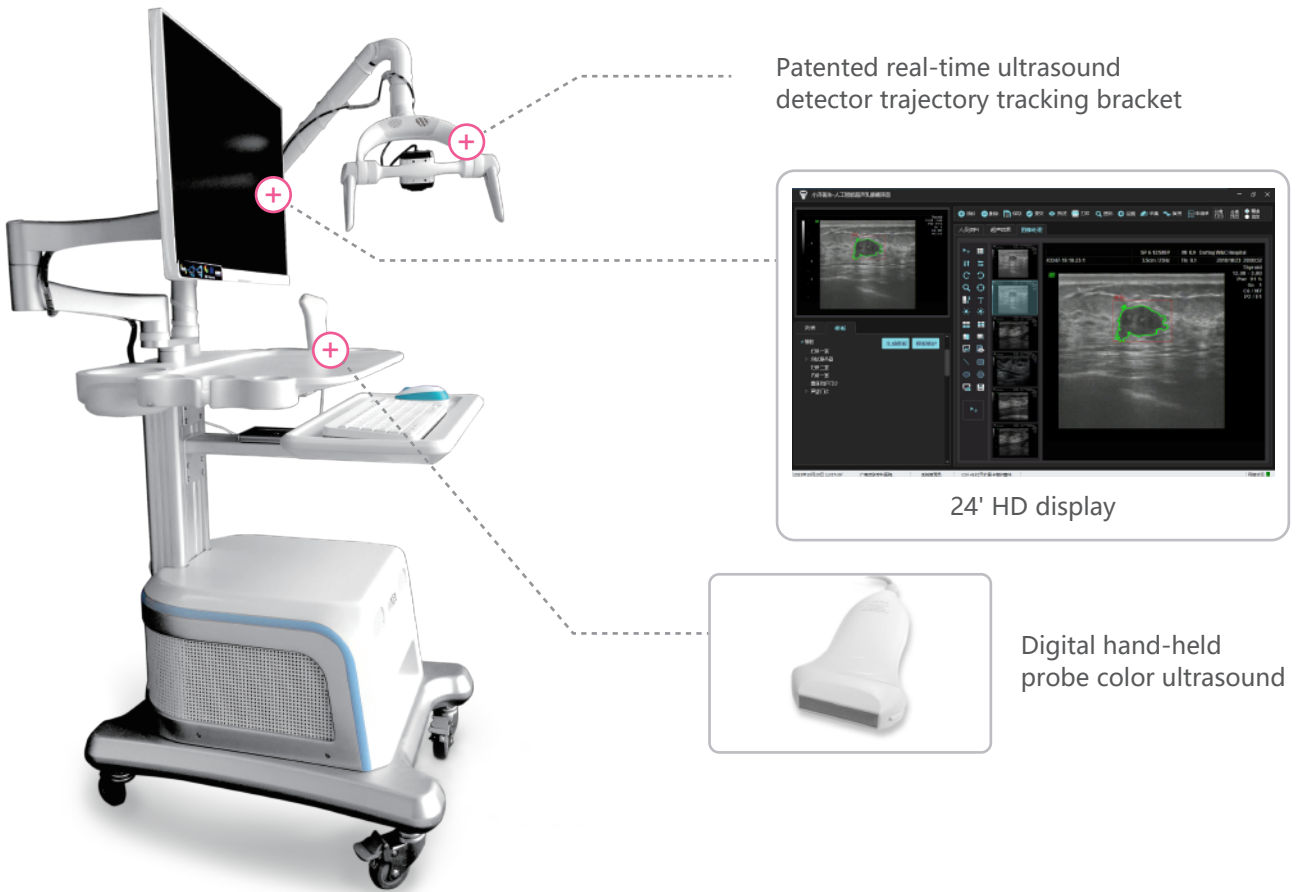
AI + Ultrasound + Big data + Cloud computing + Internet

Dr. J - AI breast cancer screening work flow

Ultrasound

AI

Dr. J

Upload ultrasonic images of suspected lesions detected by Dr.J

Experts review images of suspected lesions remotely

● Real time ultrasonic images

Ultrasound images dynamic video

AI analysis

Extract feature region

Health images

Suspected lesion images

AI analysis

Medical conclusion

BI-RADS levels

Fuzzy conclusion

Abnormal/Normal

Accurate conclusion

Malignant mass

Benign mass

Lymph node

Cyst

Dr. J- Premium model

Patented real-time ultrasound detector trajectory tracking bracket

24' HD display

Digital hand-held probe color ultrasound

Dr. J - Portable model

* Innovative AI built-in workstation
* Digital hand-held probe ultrasound
* Connection Cables
* Workstation Cable
* Mouse

Routine breast cancer screening comparison:

|	Advantage	Disadvantage
Check by hand	Flexible, low cost	Fully dependent on the skill and experience of the doctor, high rates of missed diagnosis and misdiagnosis, hard to implement widely
Biopsy	The most accurate pathological gold standard, mainly used for diagnosis	Surgical biopsies resource is limited and only available in high level hospitals. The service is expensive.
Mammography	Distinguish micro calcified nodes	Less sensitive to women with dense breast tissue, expensive, large volume, diagnosis highly depends on the medical staff, and with radiation
Ultrasound	Non-invasive, painless, non-radiation, with greater sensitivity to women with dense breast tissue. Equipment is less expensive, more common and flexible.	It is heavily depended on the professional radiologists, in the absence of well-trained health workers and quality control, the results can be inconsistent. **(this is exactly what Dr. J can solve successfully .)**

Who will perform the AI breast cancer screening?

● AI screening mode (one-day screening volume)
Operator: nurse or someone with basic medical background

Thousands of screenings per day

Dr. J

100 subjects with suspected positive lesions
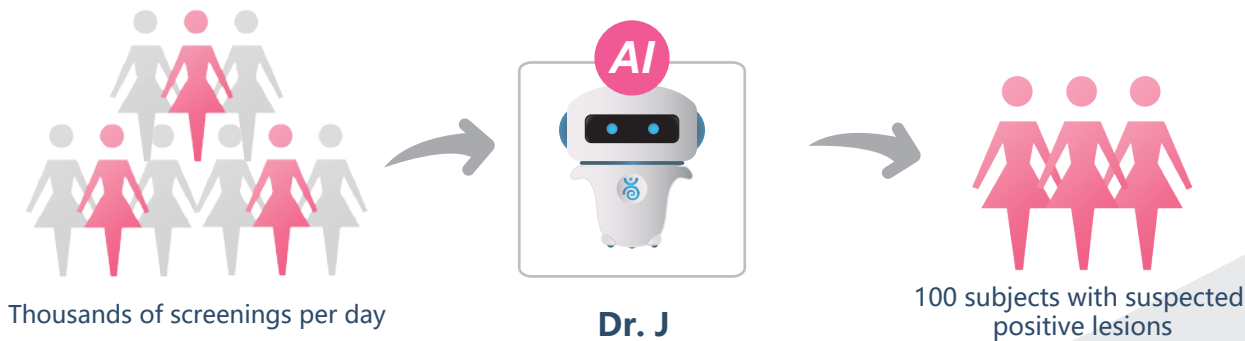
Breast cancer screening efficiency increased dramatically!

● Traditional screening mode (one-day screening volume)
Operator: experienced ultrasound doctor

50 breast cancer screenings per day

One ultrasound doctor
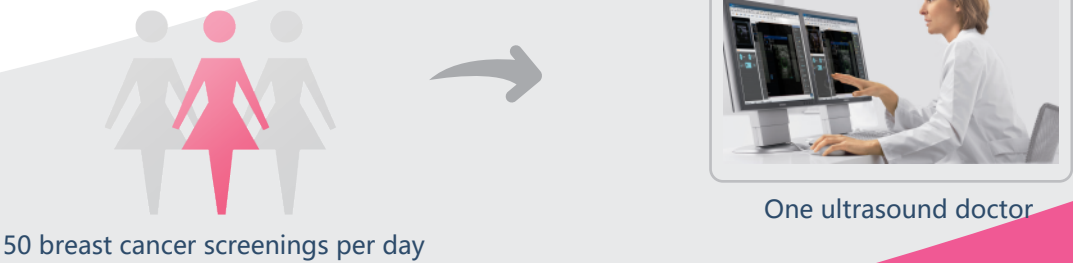
Dr. J - AI-based technology to detect breast cancer at its early stage

* High mortality rates for breast cancer patients are often due to late detection, particularly in rural areas where accessing reliable, affordable screening can be challenging.

* In resource-constrained settings, innovative AI-assisted solutions for detecting cancer could be the way forward.

* Analyzing ultrasound images using AI-based algorithms, for example, provides a no-pain, no-radiation, low-cost way to accurately screen for breast cancer in such areas.

Establish a regional AI breast cancer screening and hierarchical diagnosis and treatment service network

Rehabilitation in community

Community health center

Health examination center

AI

Beauty salon

Specialist support
Patient referral

Superior hospital

Mobile screening vehicle

Grass-roots mobile screener
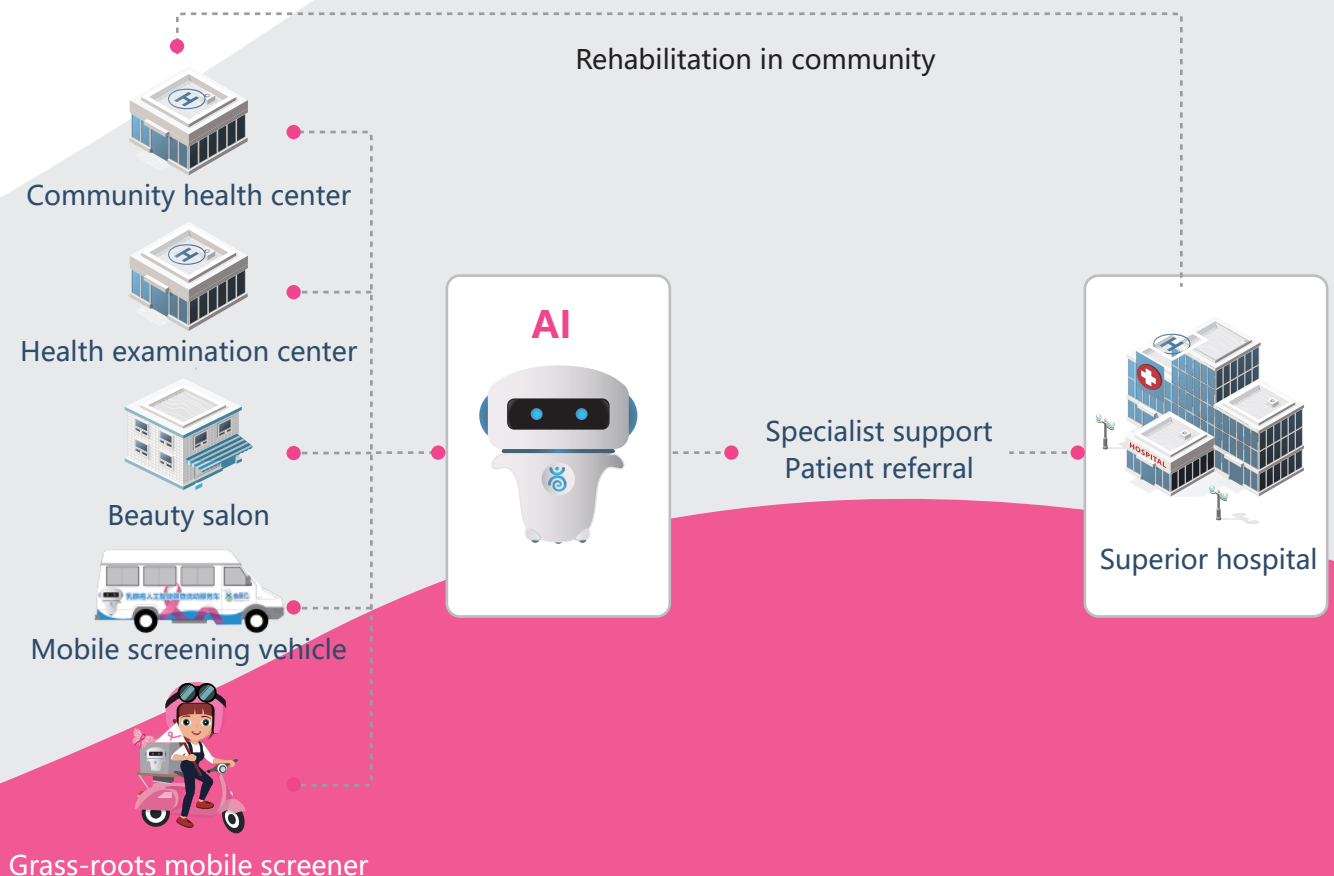
iCare365 AI data platform

Data support

Breast Health Dig Data Center

| Subject basic information | Breast ultrasound images | Scanning track of ultrasonic probe | AI analysis data |

| Breast screen health report | BI-RADS levels data | Breast cancer risk analysis data | QC data |

| Data collection | Data management | Data security | Data quality |

Big data collection

Hospital

Women children center

Health service center
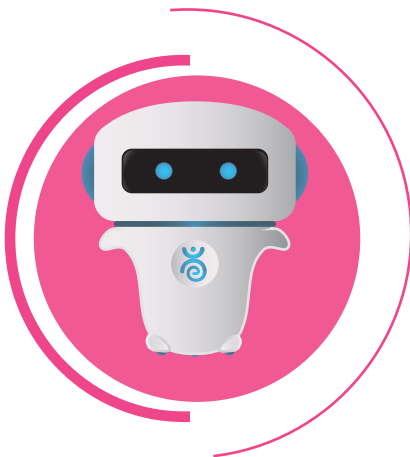
Mobile screening

Clinics

Health exam center

Beauty salon

Dr. J - the latest potential for breast cancer screening breakthrough

- Automatically detect, label, classify and measure lesions

- Automatically diagnose benign and malignant, diagnose cystic and solid

- Automatically locate the lesion

- Automatically monitor the screening area and operating technique

- Automatically evaluate the BI-RADS level

- Automatically generate <AI Breast Cancer Screening Report>

- Automatically collect and save data on cloud

- Automatic display of regional mass population screening situation map, real-time status feedback

- Collect and record breast cancer screening registration forms, disease cause analysis based on regional massive data

About us

iCare365 Technologies Inc.

iCare365 Technologies, Inc. (Known as "iCare365") is a national high-tech enterprise founded in 2015 by a group of experts with leadership experience in the world's top 500 enterprises in the United States and UK. iCare365 empowers lower cost, higher efficiency and wider coverage medical services via AI and cloud computing technologies.

To combat breast cancer by making preliminary screening service available and accessible at global communities, we successfully developed "Dr. J" --a total solution with integrated AI and ultrasonic technologies and high accuracy. It effectively empowers nurses or people with basic medical knowledge to independently conduct affordable breast cancer screening at community frontline. More and more women are benefiting from "Dr.J" services in diverse scenarios.

As a leading medical AI company in China, iCare365 innovated a multi-layer convolutional neural network through machine deep learning combined with image analysis technology. It is a novel approach featuring real-time computer analyzing of ultrasonic breast image feed. Dr. J also supports remote review by radiologists over suspicious images through its integrated cloud platform. Dr. J has been certified by China Food & Drug Administration in 2020. All products of iCare365 are independently researched and developed with full intellectual property rights.

Rewards

Partnership