



**Transform Diagnostic  
Reporting with  
↙ FLATWORLD SOLUTIONS'  
Teleradiology Services**



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**Teleradiology** is the transmission of radiological images for sharing findings with other radiologists and physicians. It helps improve the patient care by providing the images directly at the radiologist's disposal who interpret and forward their findings to the doctor. Using the Teleradiology, the sub-specialists, including MRI radiologist, Pediatric radiologist, Musculoskeletal radiologist, Neuro-radiologist, etc., can save a significant time and resources by accessing real-time image records at their place and can communicate their findings. It helps expedite the diagnosis.

*This whitepaper highlights the necessity of Teleradiology in the medical sector and how the radiologists & clinicians can make the best of Teleradiology services by Flatworld Solutions.*



## **NEED FOR EXPERT TELERADIOLOGY SERVICES**

The medical sector has witnessed a major transformation since the inception of Teleradiology. The doctors are increasingly leveraging the expertise of radiologists to recognize and interpret the disease. Moreover, with the increase in the aging population, more and more diseases related to cancer, cerebrovascular, heart disease, etc. are encountered. The good news for medical centers, however, is the accessibility to radiologists who leverage the modern modalities, including CT, MRI, etc. Consequently, radiology has become a key to diagnose the patients.

However, with a shortage of radiologists and the increasing demand for their services, both in emergency and outpatient settings, you must be looking for expert Teleradiology services.





The image procedures are growing at **15%** annually, despite new radiologists joining stands at a meager **2%**.

# WHAT TO EXPECT FROM TELERADIOLOGY SERVICES?

Teleradiology help bridge this wide gap and through it, you can have access to specialist, irrespective of your geographical location. It leads to the integration of patient information, online scheduling, and teleconsultation between doctors and imaging specialists.

01

## Technical Know-how to Interpret Images

Expertise in radiology requires technical knowledge, more so in interpreting and reporting the radiographic images. That is why the radiologists need to acquire the know-how of image capture technology and leverage the applications of information technology in healthcare. The primary motive is to effectively integrate the telemedicine into a system that can provide teleconsultation between the primary healthcare provider and the remote subspecialists.

02

## Relentless Focus on Productivity

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03

## Medical Liability Risks: How to Cater to Legal Obligations?

If taking the services of out-of-state radiologists, you have to take into considerations the fall-outs in the reporting. A simple failure to detect changes or developments in the patient's illness can result in a major lawsuit.

With proper certifications and hospital credentialing, you can minimize this risk.

## Tie-up with Flatworld Solutions

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# TECHNICAL REQUIREMENTS FOR TELERADIOLOGY



## Networking

Teleradiology requires big datasets, thus, a large throughput is necessary to ensure that the delays get mitigated. You need an infrastructure that can support Digital Imaging and Communications in Medicine (DICOM).



## Data Flow

For larger datasets, you need to get ahead of store & query/retrieve services. Usually, the streaming process in the DICOM is slow as it sends in sequence. And when you want to send the data in real-time, you cannot compromise on the image quality and must leverage a system that can effectively do so.



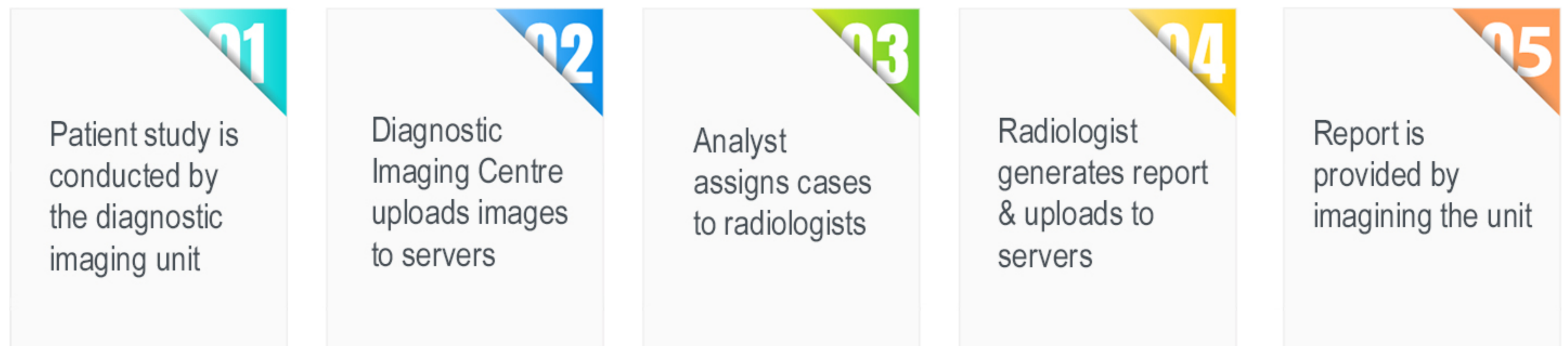
## Security & Safety

Image quality is paramount in radiology, otherwise, the diagnosis would be negatively affected. Moreover, citing the medical nature of the data, it should be encrypted before transferring and must be done via VPN. There are inbuilt encryption features in the DICOM, however, you have to check for redundancy as well. Match the DICOM standards with the VPN, if okay, you are good to go.

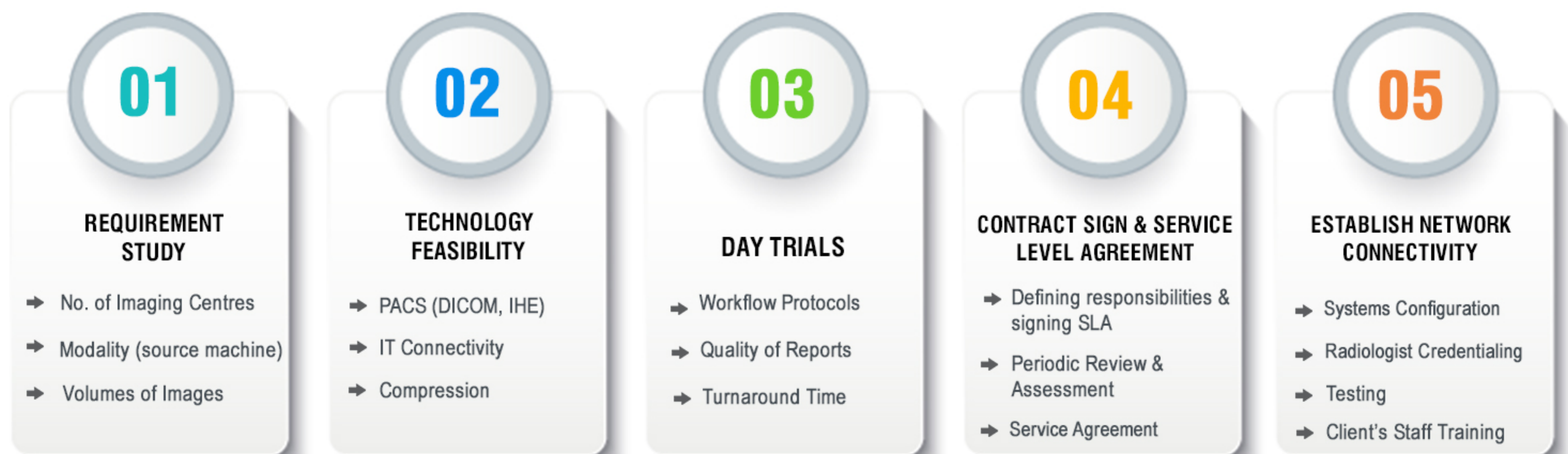


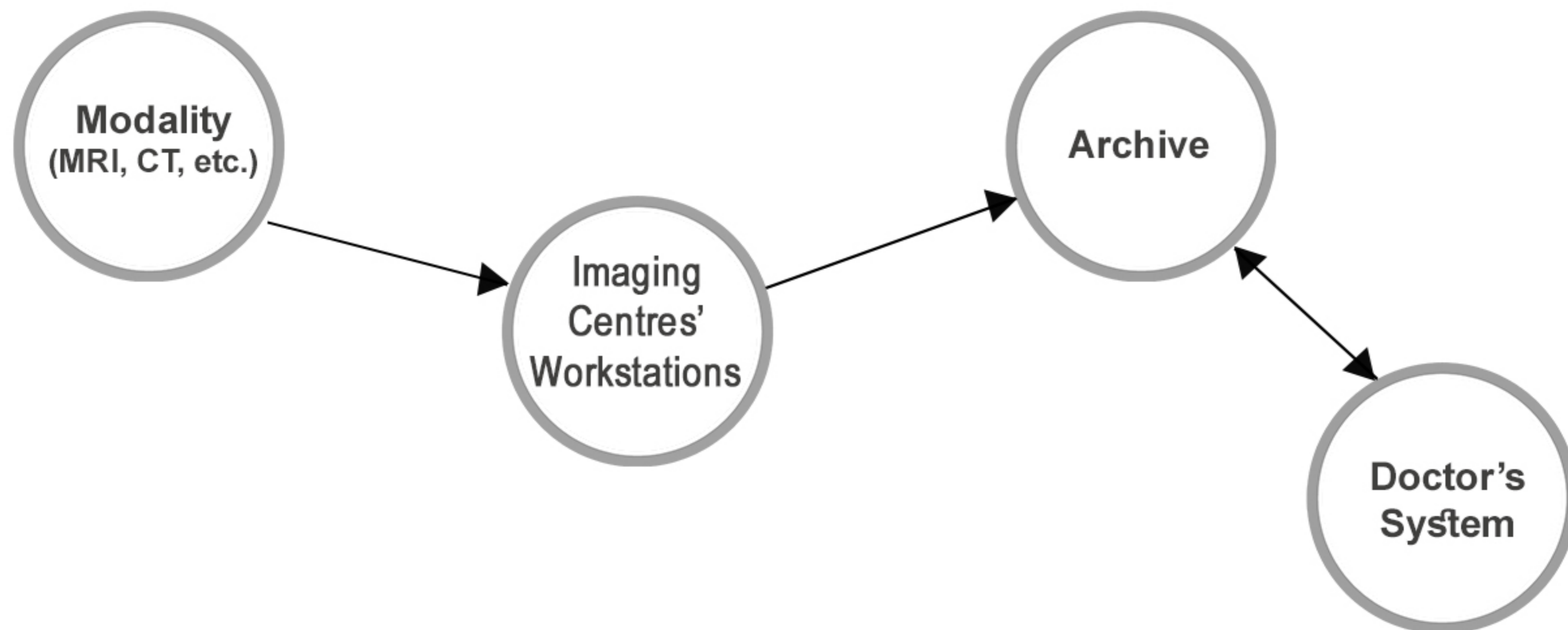
# TELERADIOLOGY WORKFLOW THAT CATERS TO ENTERPRISE-WIDE HEALTHCARE

## General Workflow of Teleradiology Process

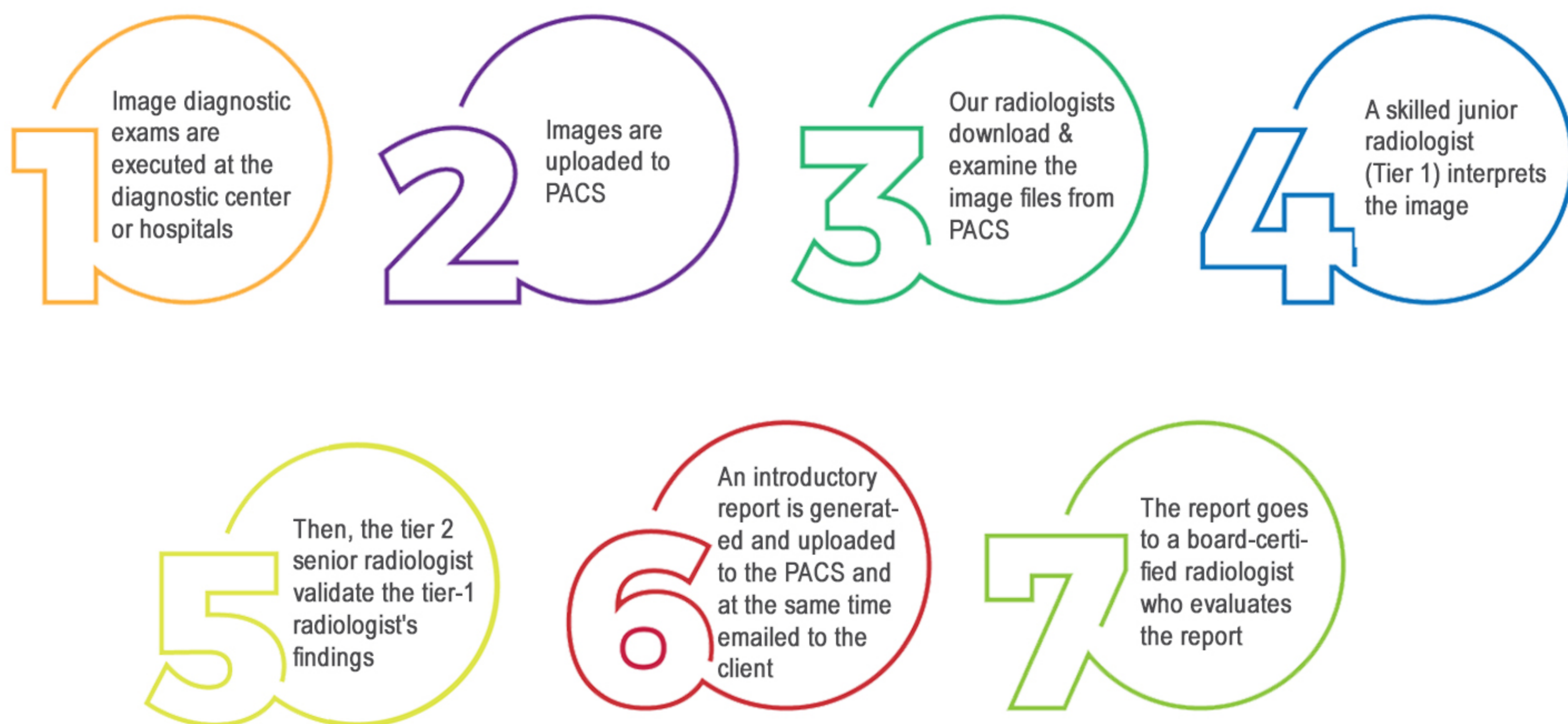


## FWS Approach to Teleradiology Services





## Teleradiology Process at Flatworld Solutions



**Note:** For a certified reporting service, there is an extra verification step that requires the Tier 3-Board-certified radiologist to conclude his findings

# TELERADIOLOGY SERVICES BY FWS

- ✓ 3D Image Processing
- ✓ Certified Reporting
- ✓ Other Teleradiology Services
  - ➔ Musculoskeletal & Doppler Ultrasounds
  - ➔ MRIs
  - ➔ Cardiology & Coronary CTA
  - ➔ Clinical Trials
- ✓ Medical Imaging
- ✓ Preliminary Reporting
  - ➔ Abdominal & Echocardiography Ultrasounds
  - ➔ Nuclear Medicine
  - ➔ Whole-body CT screenings
  - ➔ Thoracic Imaging

# BENEFITS OF FLATWORLD'S TELERADIOLOGY SERVICES

We have a team of experienced and licensed radiologists who can provide expert preliminary interpretations for the non-invasive imaging modalities. We are in the Teleradiology services for more than 12 years now and have rendered our certified reporting services to medical practices across the USA, UK, Canada, Australia, etc.







# FWS HAS ROBUST SETUP FOR EFFECTIVE CASE REPORTING

## 01. Expert Team of Radiologists & Analysts

- ➔ Specialized team to cover for specific complex cases and/or critical cases
- ➔ Expert analysts for monitoring and case assignment

## 02. State-of-the-Art Technology

- ➔ ERAD as the PACS system with the in-house competence to implement and host the solution
- ➔ Allows complete admittance to real-time cases and update progress

## 03. Tailored Service

- ➔ Access to optimized solution – you only have to upload the images on our server through a VPN
- ➔ One-stop shop for a wide-ranging Teleradiology solution

## 04. Comprehensive Diagnostic Solution

- ➔ International Standard interpretation & Reporting
  - Emergency Case reporting
  - Sub-speciality radiologists
  - Second Opinion
  - Strong data analytics support
- ➔ PACS integration
  - Official reseller of eRAD
  - 24x7 technical support
  - Reader-friendly visual interface
- ➔ Revenue Cycle Management
  - Medical billing and coding
  - Accounts receivable/Collections



# FWS TELERADIOLOGY SERVICES' KEY DIFFERENTIATORS



## On-par Professionalism

- ➔ No Downtime, 24x7 controlled TAT and Toll-free helpline
- ➔ Critical findings call
- ➔ Pay per use services –pay only for the services rendered
- ➔ World class web-based PACS, which is platform independent - accessible through desktops, tablets, smartphones using the internet even when hospital LAN is down



## Effective Telemedicine – World Class Infrastructure

- ➔ Legal compliance with set norms & standards
- ➔ Rigorous monitoring and QA protocol
- ➔ Excellent team of sub-specialty radiologists with access to state-of-the-art PACS
- ➔ eRAD that comes with a unique feature of clipped Images on the report, and complete IT support for the same at no extra cost



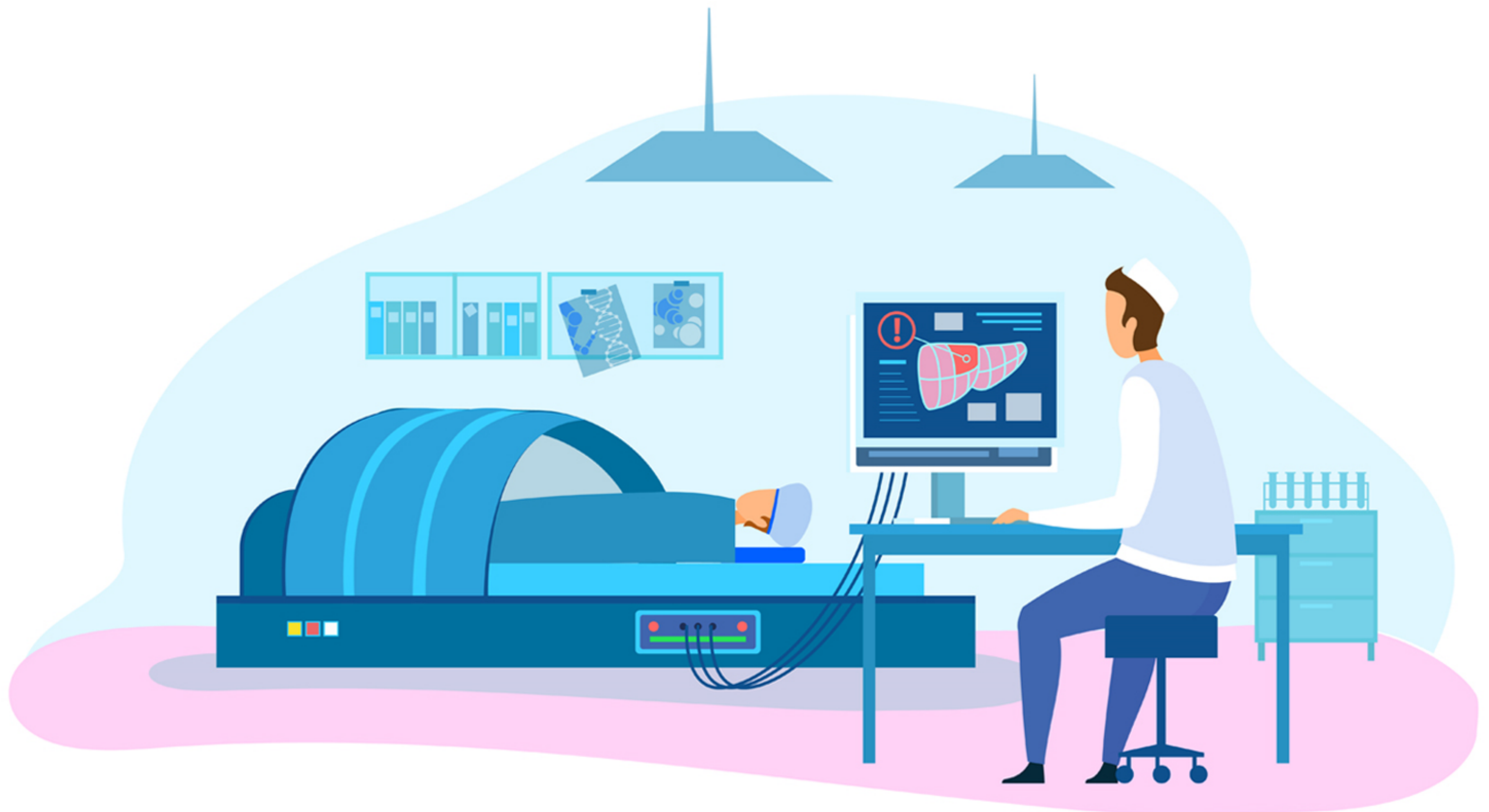
## Powerful Support System for Diagnostic Unit

- ➔ Robust back-end support for all processes and 24x7 online support available through chat rooms and toll-free helpline to facilitate queries and escalations
- ➔ Flatworld Solutions, along with our PACS partner, form a strong base on which an imaging center can nurture
- ➔ Our well-organized and superior reporting allows the medical centers to focus on enhancing their case volume
- ➔ Our ability to connect multiple centers means we will be standing side by side through your growth story



# ABOUT FLATWORLD SOLUTIONS: WHAT WE GOT HERE

Flatworld is a global Teleradiology services provider company, catering to the outsourcing needs of radiologists and hospitals. For around two decades, we have been helping the radiologist community, hospitals, and diagnostic centers with a detailed interpretation of Doppler, Abdominal, Musculoskeletal, and Echocardiography Ultrasounds, MRIs of Musculoskeletal, Brain, Spine, CT screenings, etc. Over the next 10 years, our goal is to cater our services to over 200 diagnostic imaging centers & hospitals. Our network allows us to perform 1.2 million patient inspections through a wide network of 80+ expert radiologists.



## CONCLUSION

Since, its inception, **Teleradiology** has been leading the telemedicine sector and has become its poster child. Teleradiology services could transform the competitive positions of organizations in the market for imaging services and alter the nature of the competition.

At **Flatworld Solutions**, we can make a substantial business impact by helping you with our Teleradiology services. Our radiologists are not burdened with scans and with us, your patients' do not have to wait indefinitely. Our services will help you provide an accurate and on-time diagnosis.

## OUTSOURCE TELERADIOLOGY SERVICES TO FWS

As a **HIPAA** compliant Teleradiology service provider, Flatworld Solutions is an expert in handling a variety of emergency, regular, or elective cases. Our radiologists have expertise in neuroradiology, musculoskeletal, and cardiovascular procedures, and are accessible round the clock to answer your queries, provide consultations on medical reports, share findings, etc.

Outsource Afterhours **Teleradiology Services, Radiology Information System (RIS) Services, 3D Image Processing Services, Medical Imaging services** to FWS to achieve growth, save overhead costs, and streamline your medical billing process. Schedule a Free Consultation Now to discuss your requirements with our executives.

**CONTACT US**

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