



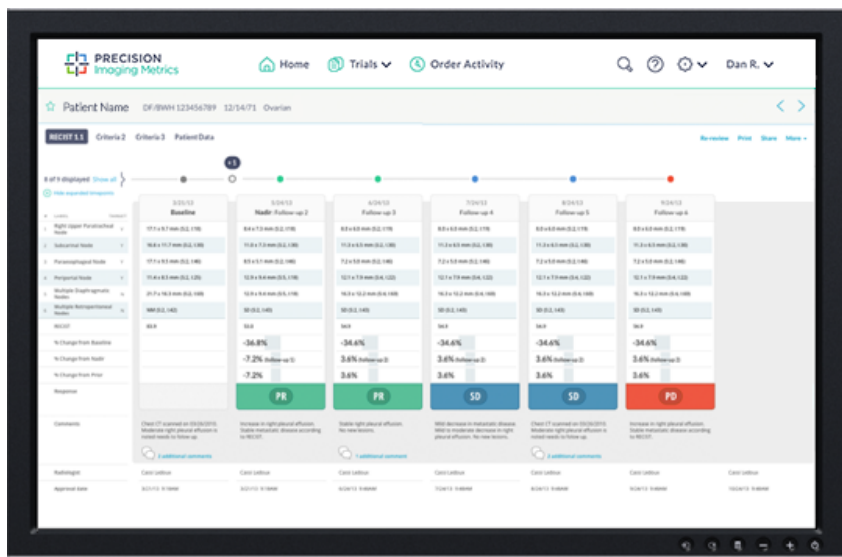
# LesionTracker

## Open Source Oncology Web Viewer

Funded through U24 from NCI ITCR Program

Trinity Urban  
March 13, 2016

# Precision Imaging Metrics



- Established as DF/HCC Tumor Imaging Metrics Core (TIMC) in 2004
- Developed PIM system to address imaging assessment needs for cancer clinical trials (>10,000 time points per year)
- Approved as NCI Shared Resource in 2006
- Utilized by 5 NCI Cancer Centers (and in discussion with several others)

For more information, visit:  
[www.precisionmetrics.org](http://www.precisionmetrics.org)

# PIM Licensing Model

- Software as a Service (SaaS)
  - Monthly usage fees
  - Monthly support fees
  - Annual licensing fee
- Metrics Manager built upon open source (BSD license) image workstation

# Why Build on Open Source?

## **Freedom**

No vendor lock-in

## **Extensibility**

Ability to add features

## **Time-Savings**

Expedited 'time to market'

## **Continuity**

Rights to source code

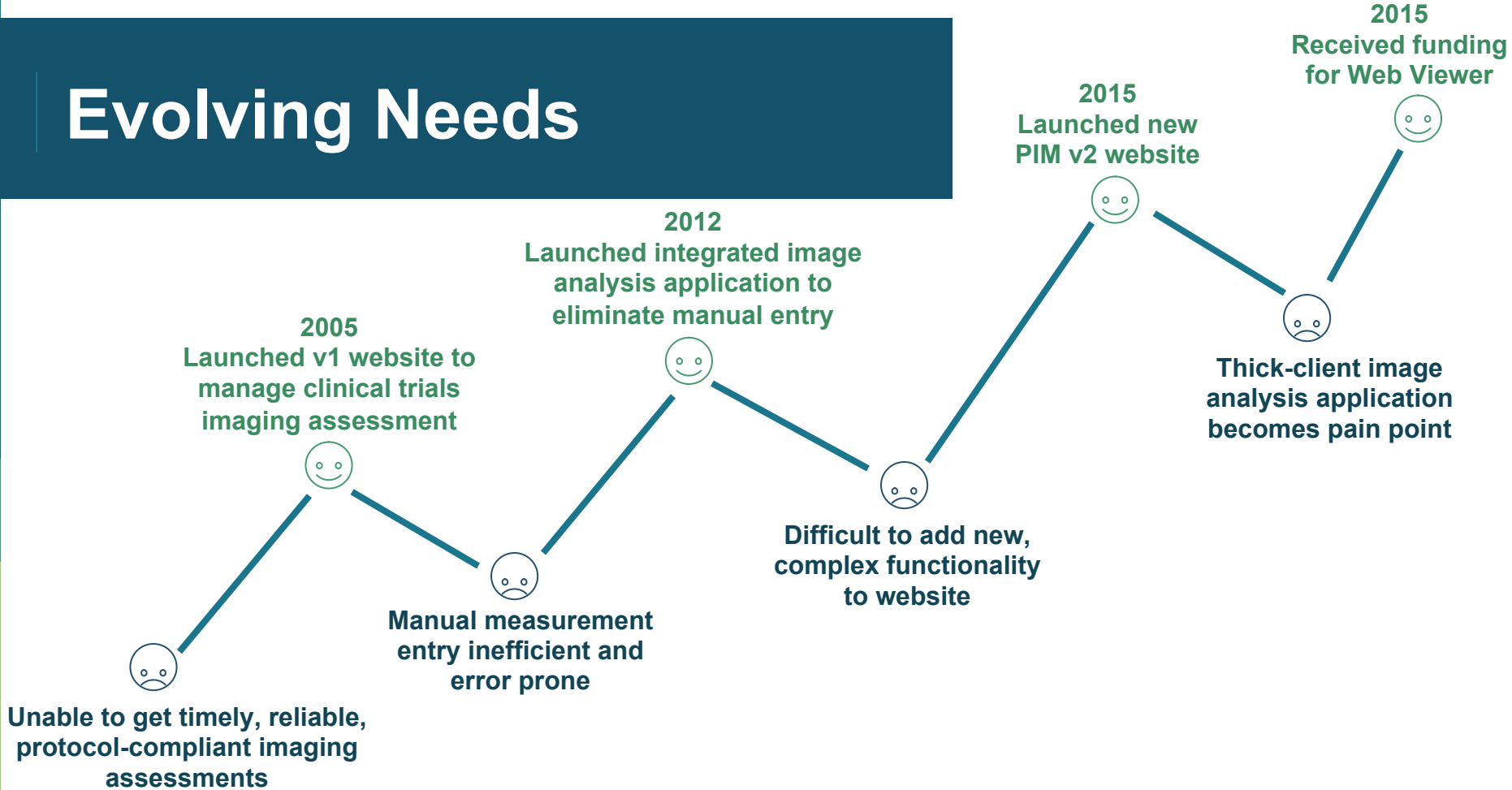
## **Flexibility**

Unlimited client licenses

## **Economical**

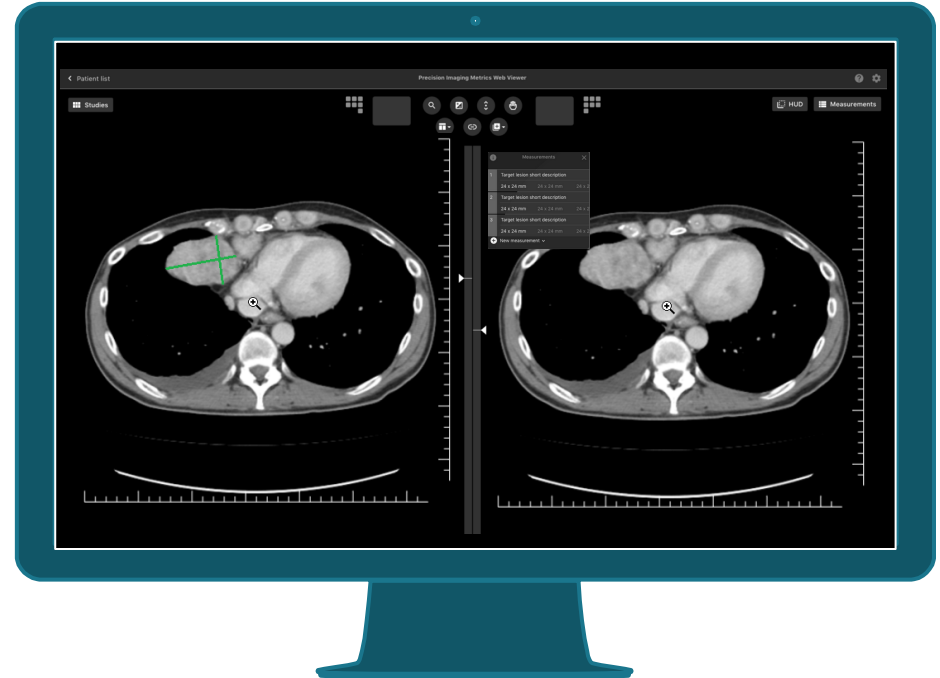
Reduced costs

# Evolving Needs



# LesionTracker

- Quantitative imaging package built on OHIF open source web viewer optimized for oncology workflow
- MIT License was selected to make it easy for the community to use and develop on the application



# Open Health Imaging Foundation (OHIF)

- 501(c)(3) Non-profit foundation that supports open source medical imaging software projects <http://ohif.org/>
- OHIF vision is to deliver an elegant, open source web health imaging platform which accelerates innovation

# LesionTracker

- Improve quality and efficiency of clinical trial imaging assessment
  - Works seamlessly with Windows, Mac, etc.
  - Provides RECIST 1.1 and irRC conformance checks
  - Supports the export of results to PDF, Excel, etc.
- Integrate with PIM clinical trial workflow and data management system
- Integrate with other ITCR and QIN projects



# User Support

- Monthly community meeting
- User forum hosted by OHIF  
<http://forum.ohif.org/>
- Jira and Confluence open to community  
<https://ohiforg.atlassian.net>

# Quality & Efficiency

## **Issue Tracking**

Jira

## **Source Control**

GitHub

## **Team Communication**

Slack + GoToMeeting

## **Test Management**

Zephyr

## **Project Management**

Confluence

## **Document Management**

Qualio

# Sustained Funding Support

**Precision  
Imaging  
Metrics**

**Open Health  
Imaging  
Foundation**

**LesionTracker**

**Additional  
Grant  
Funding**

**Corporate  
Sponsorship**

# Challenges

- Engaging the community while maintaining quality and focus
- Keeping scope within project budget and timeline



# LesionTracker Team

## MGH:

Gordon Harris (PI)

[gjharris@partners.org](mailto:gjharris@partners.org)

Olga Kulay

Matt Leary

Trinity Urban

## Collaborators:

Aysel Afsar

Chris Hafey

Rob Lewis

Armin Moehrle

Evren Ozkan

WeiWei Wu

Erik Ziegler

Please visit <http://lesiontracker.ohif.org/> to view our development progress or download the source code at

<https://github.com/OHIF/LesionTracker>

THANKS!

# Any questions?

You can find me at [turban@partners.org](mailto:turban@partners.org)

