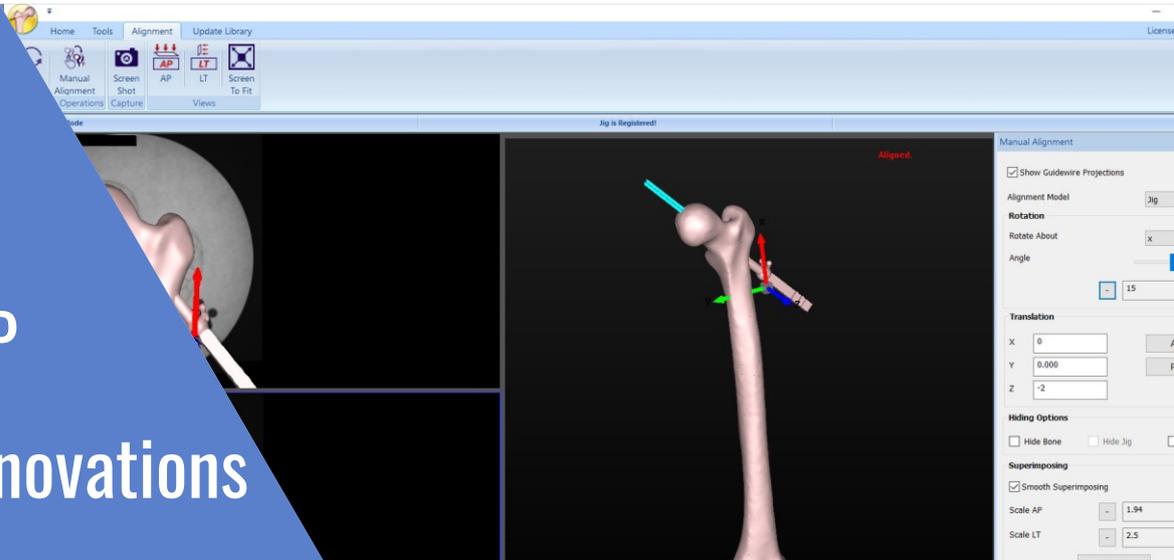


# Orthoguide PP

## VMP Ortho Innovations



### Overview

An Inventor and a renowned Orthopaedic surgeon, Dr. Vijay Panchanadikar received patent in the USA and India for his innovative idea to help orthopaedic surgeons in placing the guide wire.

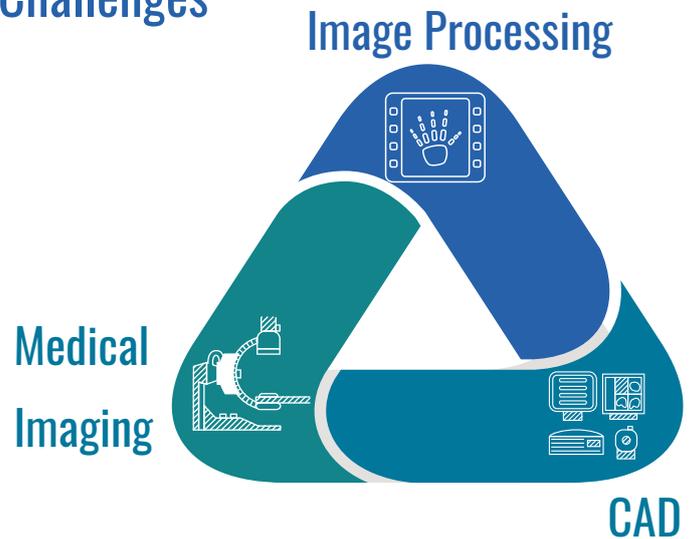


Prescient Technologies helped VMP Ortho Innovations turn this patented idea into a full fledged production ready software called Orthoguide PP.

### Orthoguide PP

Orthoguide PP is a one of a kind software application that predicts and visualizes the future position of bone implants like plates, screw nails inside the bone based on the current position of Guide wire or Plate placed on the surface of the bone both in 2D and 3D mode by using navigation software and jigs.

### Challenges



- Acquiring and Processing intra-operative X-ray images from C-Arm
- Real time detection of specific surgical tools visible in the X-ray images
- Predicting the tool path and improve its positioning.

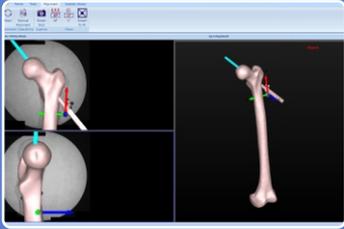
“Use of Orthoguide PP navigation system is likely to reduce trial and error in guide wire and implant positioning, improve accuracy, reduce surgery time and reduce the number of C arm shoots”

## Orthoguide PP Modes

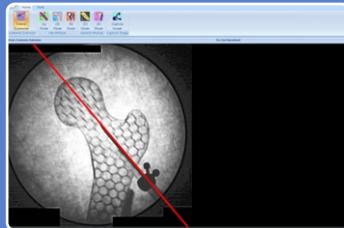
Implant mode



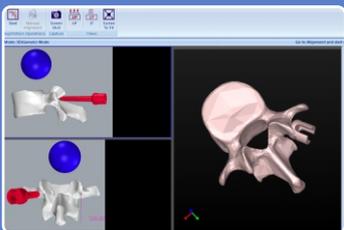
3D Hip mode



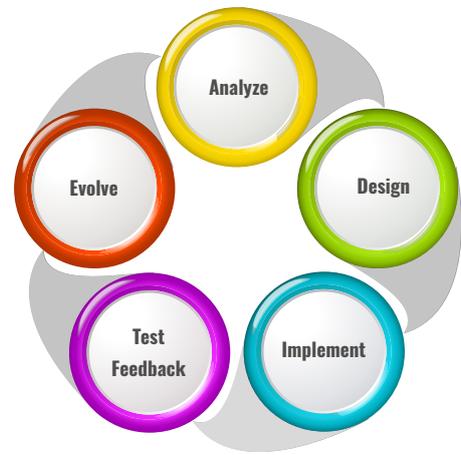
Guidewire mode



Generic 3D mode



## Evolving Product



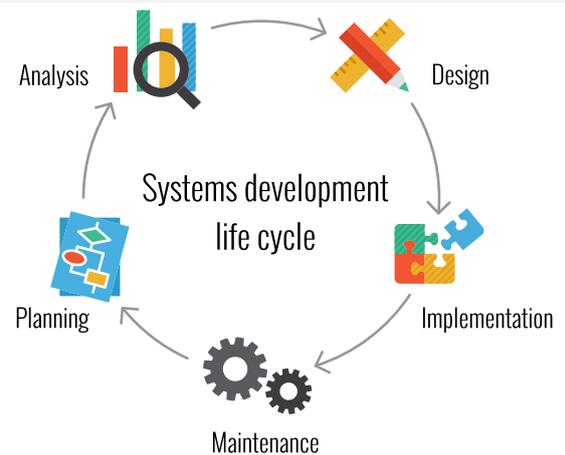
For a product as complex as Orthoguide PP, working closely with the end users and incorporating their feedback in the product is extremely crucial.

Prescient worked very closely with the end users to ensure that the features, the functionality and the user interface is exactly what they needed.

## Development Ownership

Prescient assumed the complete responsibility of developing this product, right from requirements, to design, development, testing, documentation and support.

Prescient understood different workflows and implemented them in the system to make it easy for the users to use the system



“ Hand-holding by Prescient was exemplary and that was crucial for a start-up like ours. Our project in Orthopaedic navigation involved totally new objectives in as yet unexplored areas to be achieved with innovative steps in CAD domain. ”

Dr. Vijay Panchanadikar, Orthopaedic Surgeon, Founder VMP Ortho Innovations