

INNOVA TELECOMMUNICATION



Telecommunications

Thailand

ANSYS® HFSS



Overview

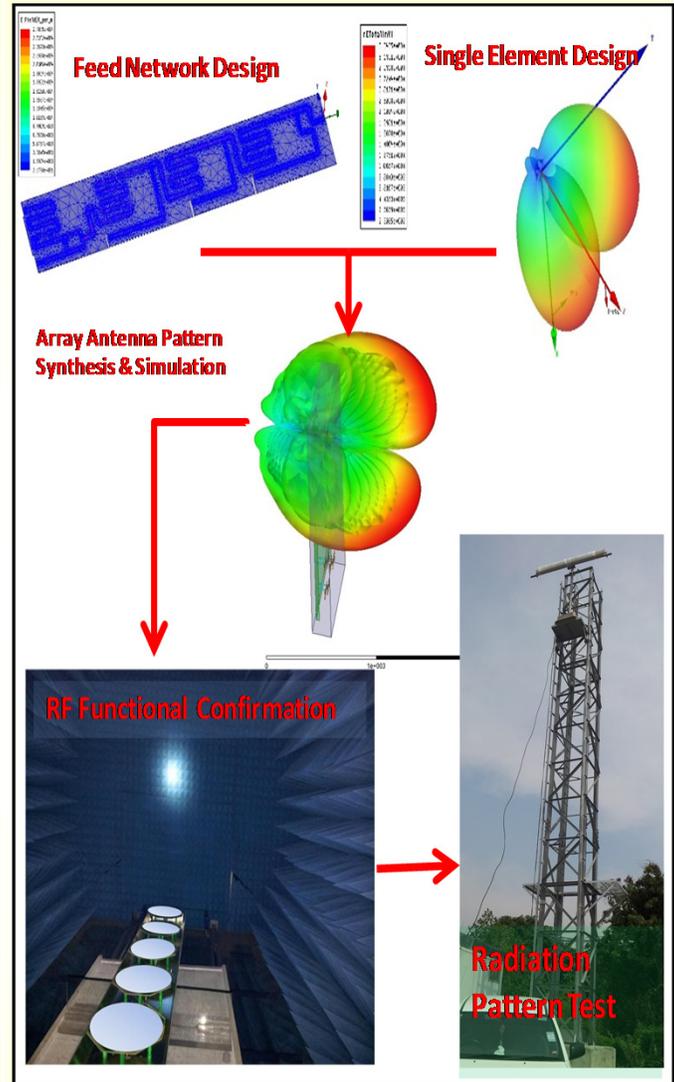
Due to rapid expansion of the Thai telecommunication industry and continuous advances in technologies, INNOVA was established in 2008 with the mission to fulfill our customers' needs with high quality products and to ensure strong customer satisfaction. Moreover, we focus on product and staff development in order for us to keep pace with the rapid changes in advanced technologies.

With our highly experienced partner, SUMTEL, who is a local leader in Thailand for end-to-end wireless coverage and capacity solutions for wireless communication networks, we are able to provide our customers a wide range of products for comprehensive suites of solutions including antennas, base station solutions and coverage solutions, which are able to meet all their needs.

Testimonial

"ANSYS HFSS has been a very important tool for us in starting research and development of RF and microwave products to serve the telecommunication industry in Thailand. We have realized for some time that this industry is very competitive, and that is why we are bringing in innovations to add values to our customers. Thus, we use ANSYS HFSS as a part of our strategy to grow the business. We are using the tool to analyze and optimize the radiation characteristics of single-element directional antennas. The results predicted from simulations have shown a very good agreement with those from measurements. In addition, we also use the tool to design and analyze feed networks in order to synthesize more complex antenna arrays. The goal is to obtain the best design before prototyping actual structures, thereby, reducing our development lead time and cost."

Mr. Buncha Kantanon
Managing Director



Challenges

- To cope with the increasingly stringent performance requirements of RF and microwave devices
- To reduce development lead time and prototyping cost of new products
- To develop know-how and capability in solving electromagnetic problems internally

Solution

- Employ the finite element solver in ANSYS HFSS in designing very complex antenna structures
- Use the virtual prototyping concept to reduce development cost and time

Benefits

- INNOVA designers are able to understand their designs and issues better through the use of ANSYS HFSS
- Measurement results agree very well with the results predicted by ANSYS HFSS
- ANSYS HFSS helps reduce lead time and cost in developing new products at INNOVA