

## **Coconal Improves Efficiency in Its Construction Projects with ZWCAD**



**INDUSTRY**  
Industrial & Civil Construction

**SERVICE**  
Construction of infrastructure projects including roads, airports, and maritime and hydraulic works

**WEBSITE**  
[www.coconal.com](http://www.coconal.com)

## ❓ CHALLENGES

- High operational costs due to costly software subscription fees
- Inefficiencies in collaboration and project management caused by a lack of a unified design platform
- Low on-site efficiency due to the lack of a portable CAD solution

## 💡 SOLUTION

ZWCAD, ZWCAD Mobile

## ✅ RESULTS

- Significant cost reduction with ZWCAD's affordable perpetual licenses
- Improved collaboration and project management through the widespread use of ZWCAD
- Enhanced on-site efficiency with the integrated ZWCAD and ZWCAD Mobile solution

**"ZWCAD and ZWCAD Mobile have brought us many benefits, making our work more efficient, both in the office and in the field. They have earned 100% of our trust to help us improve the country."**

*— Luis Fernando de la Rosa Lozoya,  
Head of the Front Section in the Highway Project*

With over 70 years of experience, Coconal is a leading Mexican construction company specializing in large-scale infrastructure projects, including roads, airports, and maritime and hydraulic works. Its continued commitment to high-quality deliverables has made it a trustworthy and competitive company in the industry.

### **Barranca Larga-Ventanilla Highway: Reducing Travel Time by 4 Hours**

A highlight of Coconal's recent achievements is the 104km Barranca Larga-Ventanilla highway project, which opened in February 2024 after 15 years of waiting. With an investment of over 13 billion pesos, this project features 2 traffic lanes, 2 toll plazas, 15 junctions, 10 bridges, 3 viaducts, and 3 tunnels. The

new route significantly reduces the travel time between Oaxaca City and Puerto Escondido from over 6.5 hours to just 2.5 hours.

Beyond that, this project also enhances access to public services like healthcare and education for remote areas, fosters tourism and infrastructure development along the coast, and promotes economic growth in Oaxaca and the well-being of over 500 thousand residents in the region.



Barranca Larga-Ventanilla Highway

### **Tackling Project Challenges with the Multi-End Collaborative Solution of ZWCAD and ZWCAD Mobile**

As a large-scale infrastructure project, the Barranca Larga-Ventanilla highway project required various design and engineering programs to complete different tasks. ZWCAD plays an instrumental role in



the project's success, bringing overall cost reduction and efficiency improvement.

Thanks to ZWCAD's perpetual licensing model, Coconal doesn't need to worry about recurring subscription fees. "We began using ZWCAD in 2012. Over the past years, we renewed licenses and acquired more," remarks José Juan Guzmán Zavala, Systems Coordinator at Coconal. "Software costs can be substantial in a large team like ours. ZWCAD helped us save a lot in software deployment and maintenance."



An engineer at Coconal used ZWCAD in the office

ZWCAD not only helps in budget management but also boosts overall efficiency. ZWCAD is adopted by over 70% of Coconal's employees throughout various stages of projects. This helps uniform design standards, enhance collaboration and improve project management efficiency.

Luis Fernando de la Rosa Lozoya, Head of the front section (0-54km) in the Barranca Larga-Ventanilla highway project at Coconal, comments, "ZWCAD was extremely helpful in both in engineering and construction stages, as it allowed us to manage topography, project planning, blueprint review, and construction engineering."

Joselina Cristóbal Santibáñez, Head of Planning Front, adds, "ZWCAD is very satisfying because we spend all our time in the office redrawing, designing, and drafting sections to quantify all the material or volume we are handling here. It is impressive to see how everything you draw with ZWCAD becomes a reality."

Coconals' efficiency has been further enhanced with the introduction of ZWCAD Mobile. ZWCAD Mobile is a free CAD viewer app that enables users to view, edit, measure and annotate CAD drawings on the go. The multi-end collaborative solution of ZWCAD and ZWCAD Mobile not only improves the portability of the resources but also facilitates coordination between the field and the office. After completing drafting on ZWCAD in the office, users can upload drawings to the cloud through ZWCAD and access them on ZWCAD Mobile in the field, saving time and cost spent in printing many drawings.

"ZWCAD Mobile allows us to carry these blueprints and all these details to the field," says Esteban López Sánchez, Planning Engineer. "It can function well even without the Internet. This aids our work as it saves our time and reduces costs."



An engineer at Coconal used ZWCAD in the office

## Driving Infrastructure Development in Mexico with ZWSOFT

The Barranca Larga-Ventanilla highway project demonstrates the transformative impact of ZWCAD and ZWCAD Mobile on Coconal's operations. With this combination, Coconal has achieved significant cost savings, improved project management, and enhanced on-site efficiency.

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### ZWSOFT

ZWSOFT has been delivering reliable all-in-one CAX solutions since 1998. With over 20 years of experience, our products have been chosen and trusted by over 1.4 million customers in more than 90 countries worldwide.

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