



PIANC

The World Association for Waterborne
Transport Infrastructure

3rd PIANC Working with Nature Award

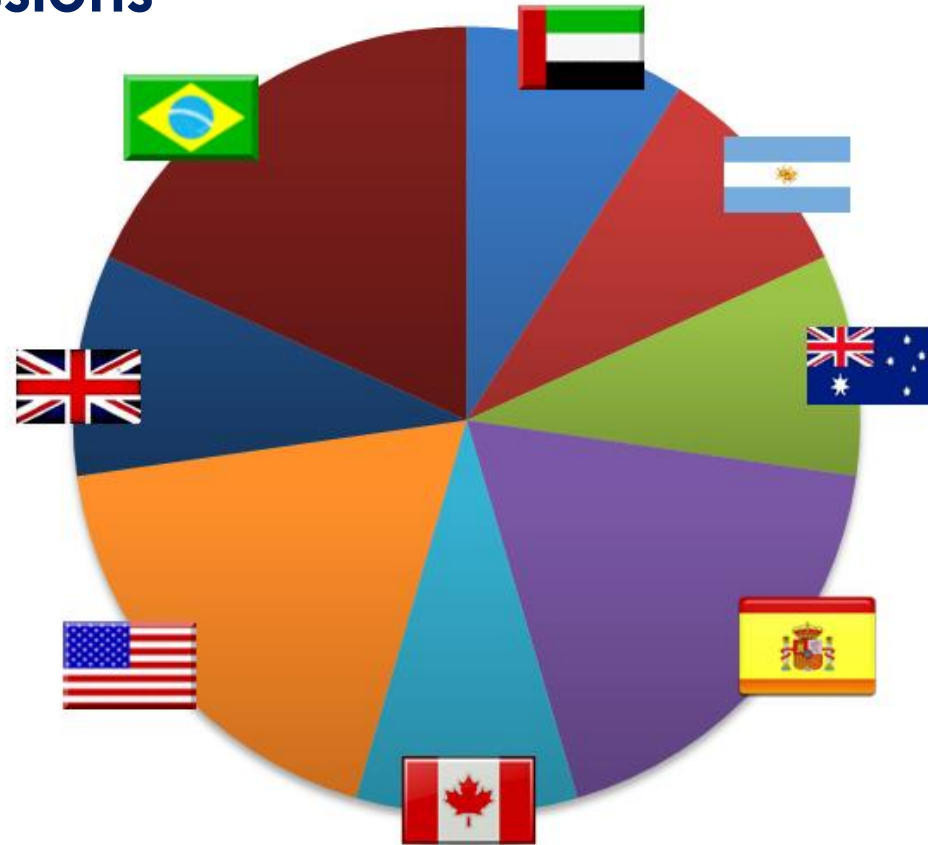
PIANC World Congress Cape Town 2024

presented by

Burton Suedel, Elmar Fuchs, and Paul Scherrer
PIANC EnviCom
2 May 2024

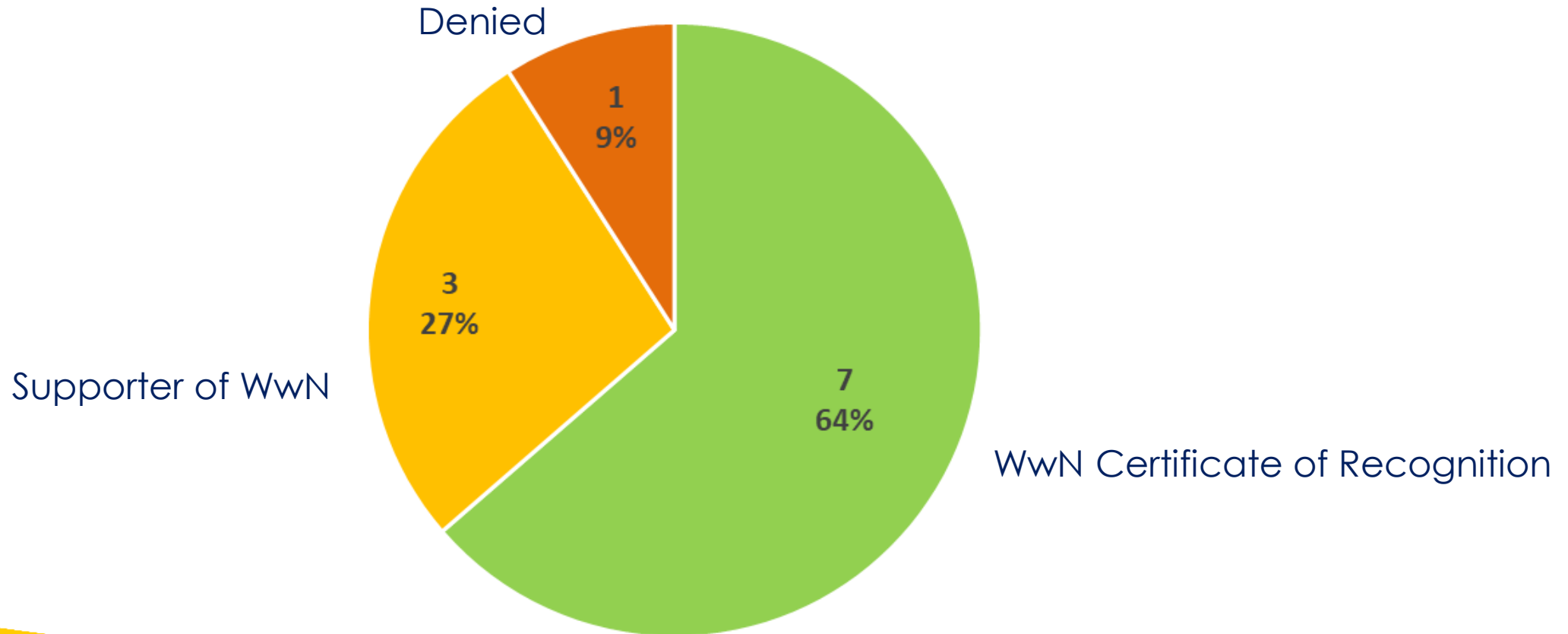
Submitted Projects for Working with Nature Award (2019 – 2024)

- 11 Project Submissions



Working with Nature Jury Voting

Certificate of Recognition / Supporter / Denied



Working with Nature Jury + WwN Vice-Chair rankings

Three highest ranked projects (in order of submission)

- Madeira River Navigation Improvement Planning Study
 - Submitter: Calvin Creech, USACE, Brazil
- Recovery of Habitats Beneficial Use of Dredged Materials and Bio-tools
 - Submitter: Rocío López Picón, Port Authority of Huelva, Spain
- Hancock County Marsh Living Shoreline and Pearl River Maintenance Dredging
 - Submitter: Wendell Mears, Anchor QEA, Inc, USA

Project Summary #1

Madeira River Navigation Improvement Planning Study

Intergovernmental Partnership USACE / Brazilian National Department of Transportation Infrastructure

- Balances navigation, ecological, and social benefits along the 1,080 km Madeira River Waterway
- Designs navigation improvement measures that leverage the natural geomorphic processes, rather than providing designs that fix large reaches in place to “control” the river against its natural processes
- Selects measures that promote navigation through channel restriction and development of a self-scouring condition
- Has highest benefit/cost ratio amongst proposed solutions for navigation improvements



Project Summary #1

Madeira River Navigation Improvement Planning Study



Project Summary #2

Recovery of Habitats Beneficial Use DM and Bio-tools

Port of Huelva

- Maintenance /occasional dredging to access the Port of Huelva
- Tidal marsh ecosystems of great ecological richness
- Beneficial and low-risk use of DM within the Port-City-Estuary vicinity
- Use of contaminated DM to obtain ecological benefits for the creation of nesting and breeding habitats and to enhance ecological connectivity
- Uses bio-tools for the recovery of ecological functions
- Includes socio-ecological needs in the development of a co-existing Port-City-Estuary area

Project Summary #2

Recovery of Habitats Beneficial Use DM and Bio-tools



Project Summary #3

Hancock County Marsh Living Shoreline and Pearl River Maintenance Dredging

Anchor QEA Inc.

- For navigation and Port Bienville operation purposes dredging of WTI is needed
- Interdisciplinary team of relevant local institutions and stakeholders search for solutions to restore the Hancock County marsh
- Stakeholders collaborated to save funds and beneficially use DM for marsh restoration and future maintenance DM placements
- Eco-engineering guided placement of DM protects shoreline and coastal habitats (e.g., shellfish reefs) of Hancock County Marsh Coastal Preserve



Project Summary #3

Hancock County Marsh Living Shoreline and Pearl River Maintenance Dredging



And the 3rd PIANC Working with Nature Award goes to...

Recovery of Habitats Beneficial Use of Dredged Materials and Bio-tools

presented by Rocío López Picón, Port Authority of Huelva, Spain



PIANC Working with Nature Award

Congratulations!

Enhorabuena por haber ganado este premio!

Recovery of Habitats Beneficial
Use of Dredged Materials and Bio-
tools



Working with Nature Award Cycle 2019-2024

- Winner** Recovery of Habitats Beneficial Use of Dredged Materials and Bio-tools
presented by Rocío López Picón, Port Authority of Huelva, Spain
- 2nd Place** Hancock County Marsh Living Shoreline and Pearl River Maintenance Dredging
presented by Wendell Mears, Anchor QEA, Inc, USA
- 3rd Place** Madeira River Navigation Improvement Planning Study
presented by Calvin Creech, USACE, Brazil





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Thank you for attending!

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