

Национальная
технологическая инициатива

Пространство возможного

RDC Aqualines MODERN RAPID FLEET

**Capabilities
of ekranoplans and hydrofoils
for solving acute transport
problems**

AGENDA

The essence of the rapid fleet idea

Ekranoplans

Hydrofoils

Cooperation proposals



THE ESSENCE OF RAPID FLEET

Speed factor is vital



Passenger transport

Search & rescue operations

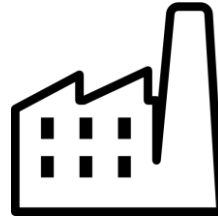
Patrol operations

About RDC

Nizhniy Novgorod, Russia



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Design bureaus

Manufacturing facility

Trial teams

Aeromarine Transport Consortium

- > 100 people
- private manufacturing facility ~ 20 000 m²
- products

Seaplanes

Hydrofoils

Ekranoplans (WIGs)

CHALLENGES

Safety (longitudinal instability)

Seaworthiness (capability of operation on the wavy water)



RDC AQUALINES
TESTING DEPARTMENT

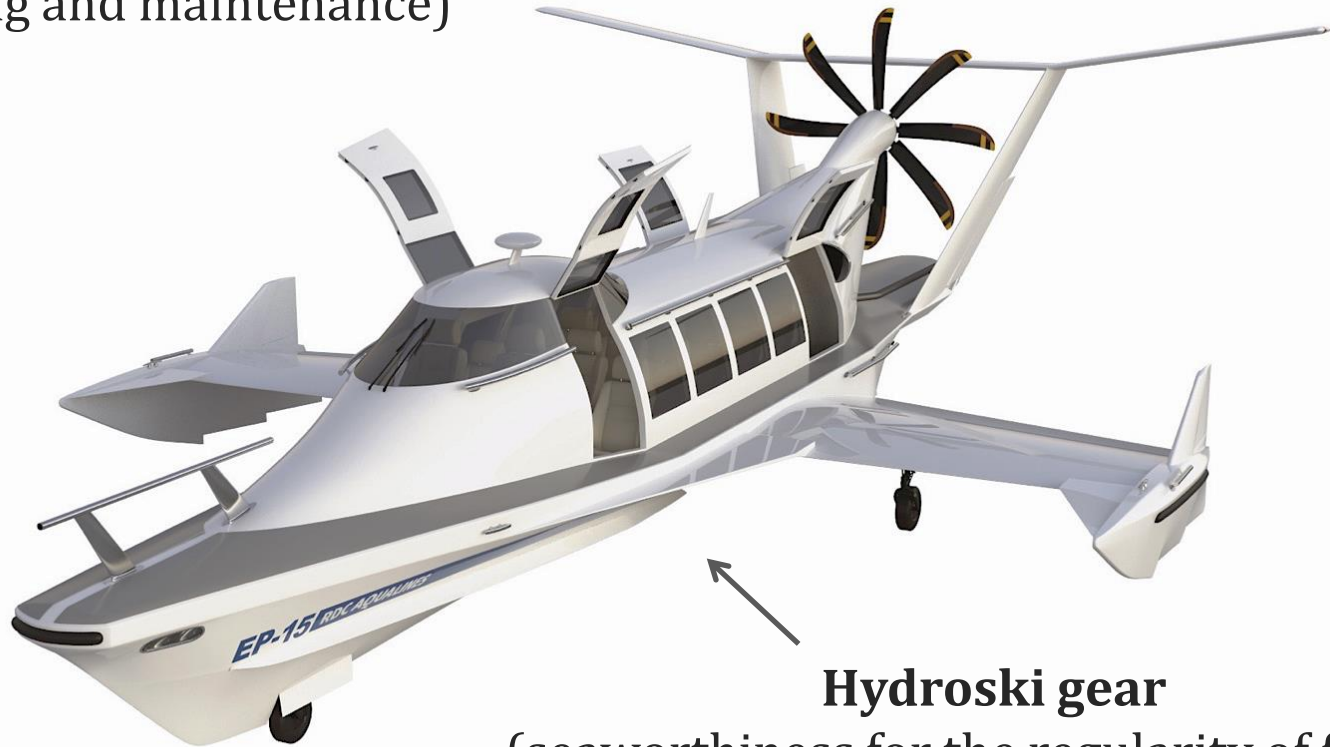


Towing trials on the wavy water. Hydroski bouncing mode
Scale 1:7

EP-15 MULTIPURPOSE EKCRANOPLAN (WIG)

Undercarriages

(ease of loading and maintenance)



Hydroski gear

(seaworthiness for the regularity of flights)

Cruising speed	190 kmh
Displacement	5,5 tons
Capacity	15 persons / 1400 kg

EP-15 MULTIPURPOSE EKCRANOPLAN (WIG)

Passenger transport

Search & rescue operations

Patrol operations



HYDROFOIL VESSELS



CHALLENGES:
Fuel efficiency
Operational limits

RETRACTABLE HYDROFOIL VESSEL A-902

Retractable hydrofoil

Speed

Fuel efficiency

Operational flexibility



Cruising speed	90 kmh
Displacement	15 tons
Capacity	25 persons

RETRACTABLE HYDROFOIL VESSEL A-902



Passenger transport
Search & rescue operations
Patrol operations

GLOBAL RAPID FLEET NETWORK

Arteres

Contact person: **Jean-Francois Boisson**
Location: Marseille, France
Languages: French, English

E-mail: france-aqualines@rdcnn.ru
Skype: jeffof13
Phone/WhatsApp: +33 674984706



SeaWolf Express

Contact person: **Ville Högman**
Location: Tallinn, Estonia
Languages: English, Finnish, Swedish, Estonian

E-mail: estonia-aqualines@rdcnn.ru
Skype: ville.hogman
Phone/WhatsApp: +358 401 898 901



Kriola Rep&Inv

Contact person: **Gilad Shahar**
Location: Praelha, Cape Verde
Languages: English, Portuguese

E-mail: cape_verde-aqualines@rdcnn.ru
Skype: giladshahar
Phone/WhatsApp: +238 526 0936



Heliworx Aerospace

Contact person: **Cenap Kahyaoglu**
Location: Fethiye, Turkey
Languages: Turkish, German, English

E-mail: turkey-aqualines@rdcnn.ru
Skype: c.kahyaoglu
Phone/WhatsApp: +90 531 674 3624



Sanasen Aviation

Contact person: **Ithipol Sanasen**
Location: Bangkok, Thailand
Languages: Thai, English

E-mail: thailand-aqualines@rdcnn.ru
Skype: ithipol.s
Phone/WhatsApp: +66 816347688



Multi Prima Artha

Contact person: **Hendra Luis**
Location: Jakarta, Indonesia
Languages: Bahasa, Chinese (Mandarin), English

E-mail: indonesia-aqualines@rdcnn.ru
Phone/WhatsApp: +62 81397750103



COOPERATION OPPORTUNITIES

R&D projects

Route lines operation

Investment projects



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