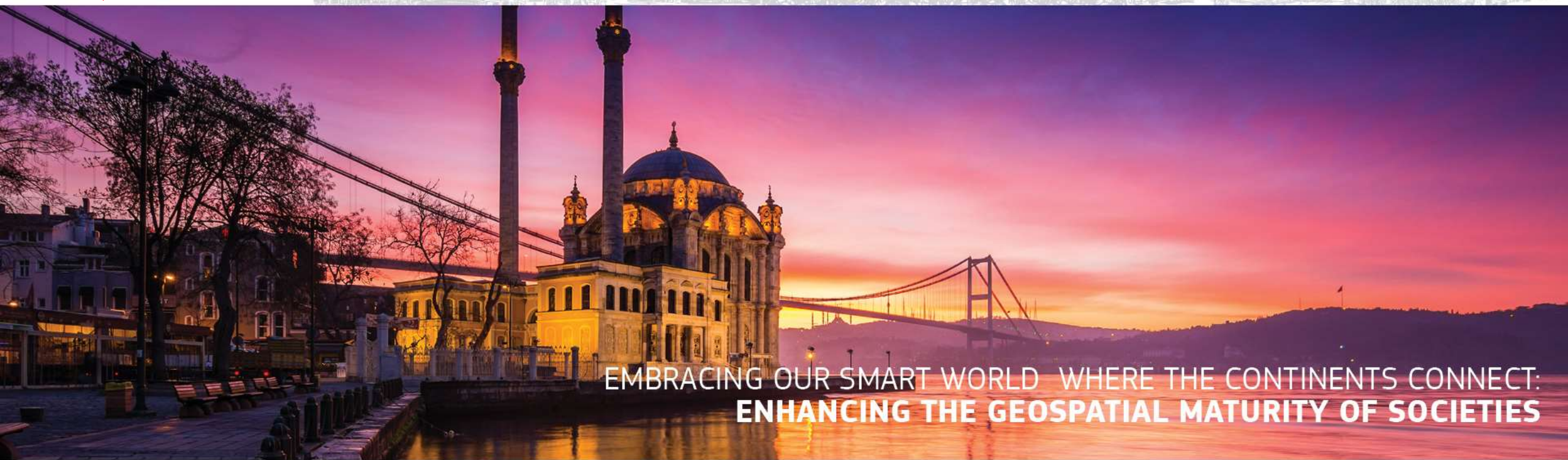
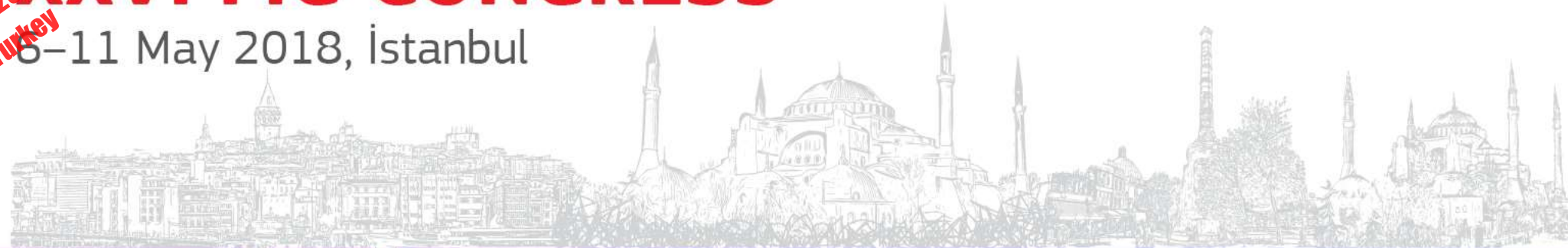


FIG
2018
ISTANBUL

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May 6-11, 2018 in Istanbul, Turkey

XXVI FIG CONGRESS

8-11 May 2018, İstanbul



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Building a new National Hydrographic Service: The Italian-Lebanese collaboration



Lamberto Orlando LAMBERTI and Nicola Marco PIZZEGHELLO (Italy),
Afif GHAITH, Elie el JBEILY and Christian FAHED (Lebanon)



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DISCUSSION

- The Framework
- The Collaboration
- The Project

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ÇEVRE VE ŞEHİRCİLİK
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THE MISSION

Collaborate between Lebanon and Italy in order to build an independent Lebanese Hydrographic Service

Collaborate: NOT AUTHORITATIVE

Independent: all tasks, from surveys to products within a data-centric approach

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THE INTERNATIONAL FRAMEWORK

IHO publication M2 - **THE NEED FOR A NATIONAL HYDROGRAPHIC SERVICE**

Chapter 1

“...In addition to su
including safety of r
management, mari
maritime defence a

TAKE-AWAY:
**NOWADAYS HYDROGRAPHY IS NOT
CONNECTED WITH
SAFETY OF NAVIGATION
ONLY**

ociated with the sea,
pment, coastal zone
boundary delimitation,

UN GGIM publicatio

Chapter 9.3

“The demand for m
regards to the blue economy, security and emergency requirements for a wide range of users.”

ision **SECOND EDITION**

at high speeds with

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THE FIRST STEP - TRAINING

TAKE-AWAY:

**THE COURSE IS NOT ONLY ABOUT
LEARNING OUTCOME
BUT ALSO ABOUT
IMPROVING RELATIONSHIPS**

(Competence)

IHO/FIG/ICA STAFF

- 2 CAT A Lebanon

- 5 CAT B Lebanon

Key points:

- Joining theory
- Trainers from

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THE PROJECT WITHIN THE INTERNATIONAL FRAMEWORK

IHO publication M2 – **THREE PHASES**

1. Maritime Safety Information (MSI): organising the collection and circulation of nautical information, required to maintain and
2. Creation of a
3. Ability to pro

TAKE-AWAY:
TECHNICAL ASPECTS ARE OFTEN SOLVED BY INDEPENDENT WORK; EXTERNALLY LINKED ASPECTS NEED DEEPER INVOLVMENT

Phases within our

1. The SHMAL (L
Critical Issue: **aut**
2. Mostly done,
Geodetic Serv
3. Long term, in progress

uthorities, National

Critical issue: **it is a legal obligation with benefits but duties too**

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THE PROJECT WITHIN THE NATIONAL FRAMEWORK

IHO publication M2

CRITICAL ASPECTS

- **EXPENSIVE**
equipment and software
- **LONG TERM**
have a mid-term

TAKE-AWAYS:

- **SEEK BUDGET OUTSIDE THE HYDROGRAPHIC LEVEL** (national level)
- **ROME WASN'T BUILT IN A DAY**

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THE LONG VIEW

1. HYDROGRAPHY
 Technical Arrangements for
 co-production
2. NATIONAL AGENCIES
 Hydrography as a
 Geospatial Data Source
3. INTERNATIONAL COOPERATION
 Lebanese Hydrography and
 Geomatics

TAKE-AWAY:
TAKE INTO CONSIDERATION
HUMAN RELATIONSHIPS
TO ENHANCE GEOSPATIAL
MATURITY OF SOCIETIES

for

and Italy

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THE HYDROGRAPHIC PHASE

1. Complete up-to-date new equipment and software
2. Installation and professional courses delivered together with hardware and software
3. At least yearly Italian mentoring teams in Lebanon



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THE REFERENCE FRAME

1. 4D reference frame
2. Connecting the National Geodetic Reference Frame with the Hydrographic one
3. Connecting Authorities in charge



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FUTURE PLANS

QUESTIONS?



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