

APPENDIX A

Agenda

1. Introduction: objectives and expected outcomes.
2. Review the main tools currently available for applying an ecosystem approach to fisheries.
3. Assess the usefulness and applicability of these tools, particularly for less developed countries.
4. Identify the tools that would be considered most useful to foster an effective implementation of an ecosystem approach to fisheries but that are currently missing.
5. Identify the best means of developing the missing tools.
6. Consider a suitable framework for the toolbox (e.g. Web portal, stand-alone package, expert system, etc.).
7. Identify the role of FAO and partners in completing disseminating and facilitating use of existing tools and in developing a toolbox.

APPENDIX B

List of participants

DASKALOV, Georgi
Fisheries ecosystems and oceanography
System Modeling team
CEFAS Lowestoft Laboratory
Pakefield Road,
Lowestoft, Suffolk
NR33 0HT
United Kingdom
Tel/fax: +44 (0)–1502 524584
Fax: +44 (0) 1502–524511
E-mail: georgi.daskalov@cefass.co.uk
www.cefass.co.uk

DAVIES, Campbell
Stream Leader
Pelagic Fisheries and Ecosystems
Marine and Atmospheric Research
CSIRO
GP Box 1538
Castray Esplanade
Hobart, TAS 7000
Australia
Tel.: +613–6232 5044
Fax: +613–6232 5012

DEGNBOL, Poul
Scientific Adviser
Conservation Policy - Directorate A
DG Fisheries & Maritime Affairs
European Commission
Rue Joseph II, 79
1049 Brussels
Belgium
Tel.: +32–2–2957316
Fax: +32–2–2998396
E-mail: pd@mail.dk or
Poul.DEGNBOL@ec.europa.eu

FLETCHER, Warrick (Rick) Jeffrey
Department of Fisheries
PO Box 20
North Beach 6920 WA
Australia
Tel.: +618–9203–0114
Fax: +618–9203–0199
Mob: +61–0418–884–236
E-mail: rick.fletcher@fish.wa.gov.au

GRAHAM, Norman
Team Leader – Demersal Fisheries 1
Marine Institute
Rinville - Oranmore
Co Galway - Ireland
Tel.: +353 (0)91 387 307 (direct)
Tel.: +353 (0)91–387200 (switchboard)
Mobile: +353 (0)879–681903
E-mail: Norman.graham@marine.ie

GRANT, Sandra
P.O. Box 1397, Belize City, Belize
Belize City
Belize
Tel.: +501–223–3190
E-mail: linegrant@hotmail.com

JALIL ALVAREZ, Alfonso
Director de Asuntos Económicos
Comisión Permanente del Pacífico Sur (CPS)
Complejo Albán Borja
Edif. Classic, 2do piso
Guayaquil
Ecuador
Tel.: +593–4 2221202/ 22221203
Fax: +593–4 2221201
E-mail: direcono@cpps-int.org

KORANTENG, Kwame
Regional Representative
WWF Eastern Africa Regional
Programme Office
A.C.S Plaza, Lenana Road;
PO Box 62440
Nairobi, Kenya
Tel.: +254–20 3876373, 3877355
Fax: +254–20 3877389
E-mail: KKoranteng@wwfearpo.org
Web site: www.panda.org/earpo

KRAMER, Randall
Professor of Resource and Environmental
Economics
Nicholas School of the Environment and Earth
Sciences – Duke University
P.O. Box 90328
Durham, NC 27708-0328
United States of America
Tel.: +919–613–8072
Fax: +919–684–8741
E-mail: kramer@duke.edu

KUIKKA, Sakari
Professor of Fisheries Biology
Leader of FEM Group
Department of Biological and Environmental
Sciences
FI-0014 – University of Helsinki
Finland
Tel.: 358–50 3309233
E-mail: sakari.kuikka@helsinki.fi

LINK, Jason
Research Fisheries Biologist
Leader, Food Web Dynamics Program
National Marine Fisheries Service
Northeast Fisheries Science Center
166 Water Street
Woods Hole, MA 02543
United States of America
Tel.: +1–508–495–2340
Fax: +1–508–495–2258
E-mail: jlink@mercury.wh.who.edu
E-mail: jason.link@noaa.gov

MAHON, Robin
Professor of Marine Affairs and Director
Centre for Resource Management and
Environmental Studies (CERMES)
University of the West Indies
Cave Hill Campus
Barbados
Tel.: +246–417–4570, Fax 246–424–4204
E-mail: rmahon@caribsurf.com

MATHEW, Sebastian
Programme Adviser, ICSF
International Collective in Support of
Fishworkers (ICSF)
27 College Road
Chennai - 600 006
India
Tel.: +91–44–28275303
Fax: +91–44–28254457
E-mail: icsf@icsf.net
Web site: www.icsf.net - www.icsf.org

PATERSON, Barbara
Private Bag 5001
Swakopmund
Namibia
Tel.: +264–64–694051
Fax: +26464–694050
E-mail: Barbara@paterson.alt.na

SALAS, Silvia
A.P. 73, Cordemex
CP 97310
Mérida Yucatán, México
Tel.: +52 999 1242168 – ext. 4
Fax: +52 999 9812334
E-mail: ssalas@mda.cinvestav.mx

SERGIUO, Kooustantinos (Kostas)
Laboratory of Ichthyology
Section of Zoology
School of Biology
Aristotle University of Thessaloniki
PO Box 134
Thessaloniki 51124
Greece
Tel.: +30–231–998268
Fax: +30–231–998267
kstergio@bioo.auth.gr
Web site: ichthyology.bio.auth.gr

WOROWIT, Wanchana
Programme Manager
SEAFDEC Secretariat
Surawdsi Building - Kasetsart Campus
PO Box 1046 Kasetsart Post Office
Bangkok 10903
Thailand
E-mail: worawit@seafdec.org

FAO
Viale delle Terme di Caracalla
00153 Rome – Italy

COCHRANE, Kevern
Chief
Fisheries Management and Conservation
Service
Fisheries and Aquaculture Management
Division
Fisheries and Aquaculture Department
Tel.: +39–06–570–56109
Fax: +39–06–570–53020
E-mail: Kevern.cochrane@fao.org

BIANCHI, Gabriella
Fishery Resources Officer
Fisheries Management and Conservation
Service
Fisheries and Aquaculture Management
Division
Fisheries and Aquaculture Department
Tel.: +39-06-570-53094
Fax: +39-06-570-53020
E-mail: gabriella.bianchi@fao.org

VASCONCELLOS, Marcelo
Fishery Resources Officer
Fisheries Management and Conservation
Service
Fisheries and Aquaculture Management
Division
Fisheries and Aquaculture Department
Tel.: +39-06-570-56469
Fax: +39-06-570-53020
E-mail: marcelo.vasconcellos@fao.org

DE YOUNG, Cassandra
Fishery Planning Analyst
Development and Planning Service
Fisheries and Aquaculture Economics and
Policy Division
Fisheries and Aquaculture Department
Tel.: +39-06-570-54335
Fax: +39-06-570-56500
E-mail: cassandra.deyoung@fao.org

CAROCCHI, Fabio
Research Assistant
Fisheries Management and Conservation
Service
Fisheries and Aquaculture Management
Division
Fisheries and Aquaculture Department
Tel.: +39-06-570-55176
Fax: +39-06-570-53020
E-mail: fabio.carocci@fao.org

VAN LIERDE, Anne
Secretariat Assistant
Fisheries Management and Conservation
Service
Fisheries and Aquaculture Management
Division
Fisheries and Aquaculture Department
Tel.: +39-06-570-56645
Fax: +39-06-570-53020
E-mail: anne.vanlierde@fao.org

MANSUETI, Marina
Operations Clerk
Fisheries Management & Conservation Service
Fisheries and Aquaculture Management
Division
Fisheries and Aquaculture Department
Tel.: +39-06-570-562159
Fax: +39-06-570-53020
E-mail: marina.mansueti@fao.org

INTERNATIONAL CONSULTANTS

GARCIA, S.M.
14, Via Perdasdefogu
Aranova (RM)
Italy
Tel.: +39-06-61705228
E-mail: garcia.sergemichel@gmail.com


MAGUIRE, Jean-Jacques
Fisheries and Aquaculture Management
Division
Fisheries and Aquaculture Department
Tel.: +39-06-570-54592
Fax: +39-06-570-53020
E-mail: JeanJacques.Maguire@fao.org

KALIKOSKI, Daniela
FISHCODE Programme
Fisheries and Aquaculture Economics and
Policy Division
Fisheries and Aquaculture Department
Tel.: +39-06-570-54059
Fax: +39-06-570-56500
E-mail: daniela.kalikoski@fao.org

CHRISTIE, Patrick
Visiting Scientist

APPENDIX C

Presentation by Gabriella Bianchi



Workshop on a Toolbox for Applying the Ecosystem Approach to Fisheries
Rome, Italy, February 26-29, 2008

The FAO Ecosystem Approach to Fisheries (EAF)

Gabriella Bianchi
Fisheries Management and Conservation Service
FAO



1. EAF Definition



”An Ecosystem Approach to Fisheries strives to balance diverse societal objectives, by taking account of the knowledge and uncertainties about biotic, abiotic and human components of ecosystems and their interactions and applying an integrated approach to fisheries within ecologically meaningful boundaries.”

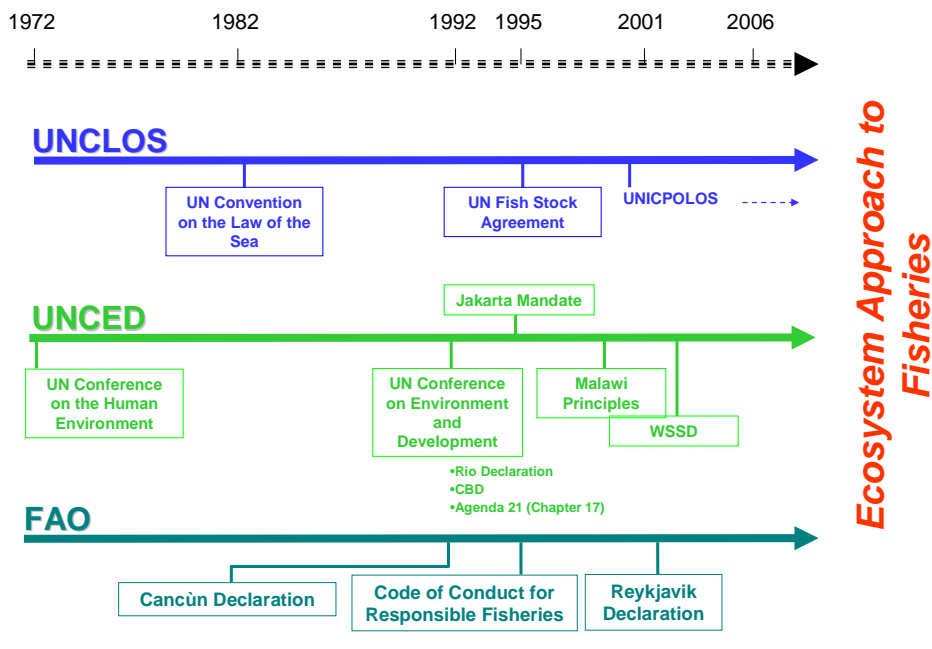
FAO Guidelines (FAO 2003, 2005)

2. Concept development. Why EAF?



- Advances in science (environmental effects on fishery resources and effects of fishing on non-target species and habitats, food-chain effects and biodiversity)
- Increasing societal awareness of the impacts of fisheries on marine ecosystems
- Poor performance of current management practices (top-down, prescriptive, target-oriented etc)
- Recognition of a wide range of societal interests in marine ecosystems

2. Concept development



Comparison with other approaches



- Many approaches are proposed in the context of sustainable development for aquatic ecosystems:
 - Ecosystem-based fisheries management (EBFM)
 - Ecosystem-based management (EBM)
 - Ecosystem approach (EA)
 - Ecosystem approach to fisheries (EAF)
 - Integrated coastal zone (or area) management (ICZM, ICAM)
 - Integrated ocean management (IOM)
 - Community-based fisheries management (co-management)
 - Large Marine Ecosystems (LME)
 - Territorial user rights for fisheries (TURFS)
 - Marine protected areas (MPAs)
 - Sustainable Livelihood Approach (SLA)

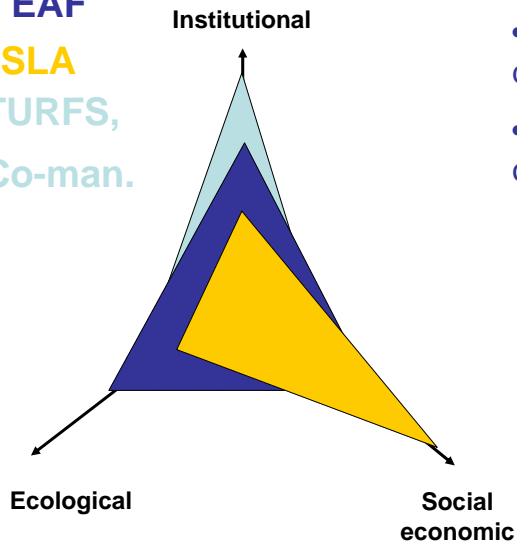
Comparison with other approaches



- **CROSS-SECTORAL (integrated) APPROACHES**
 - Deal with goals for sustainable development in a given region / ecosystem including all sectors (e.g. fisheries, mining, shipping, tourism etc.)
 - Allocate rights to different user groups and reconcile conflicts
Examples: EBM, IOM, LME and ICZM
- **SECTORAL APPROACHES**
 - Deal with goals and intentions for Sustainable Development within a given sector
 - Make sure that there is consistency with the framework provided by the global strategy

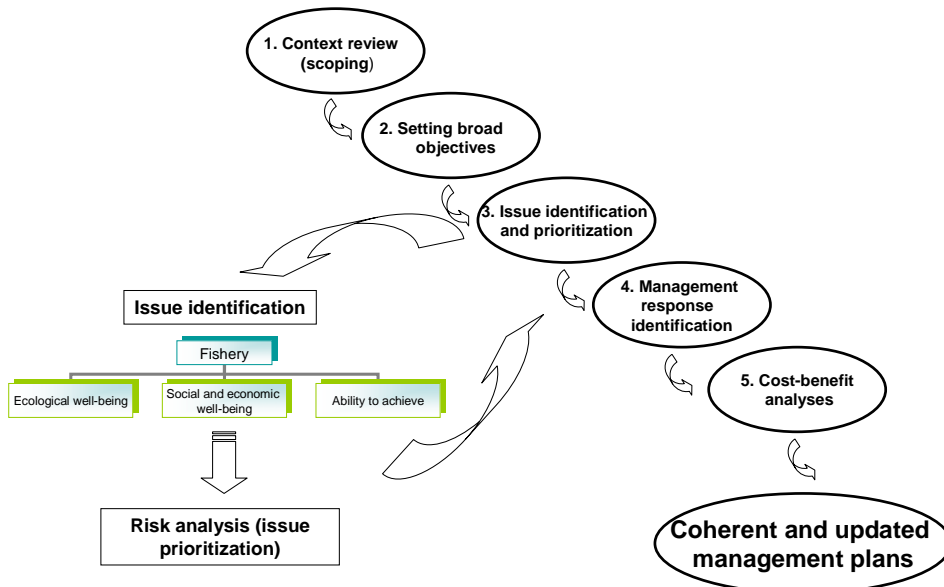
Examples: EAF

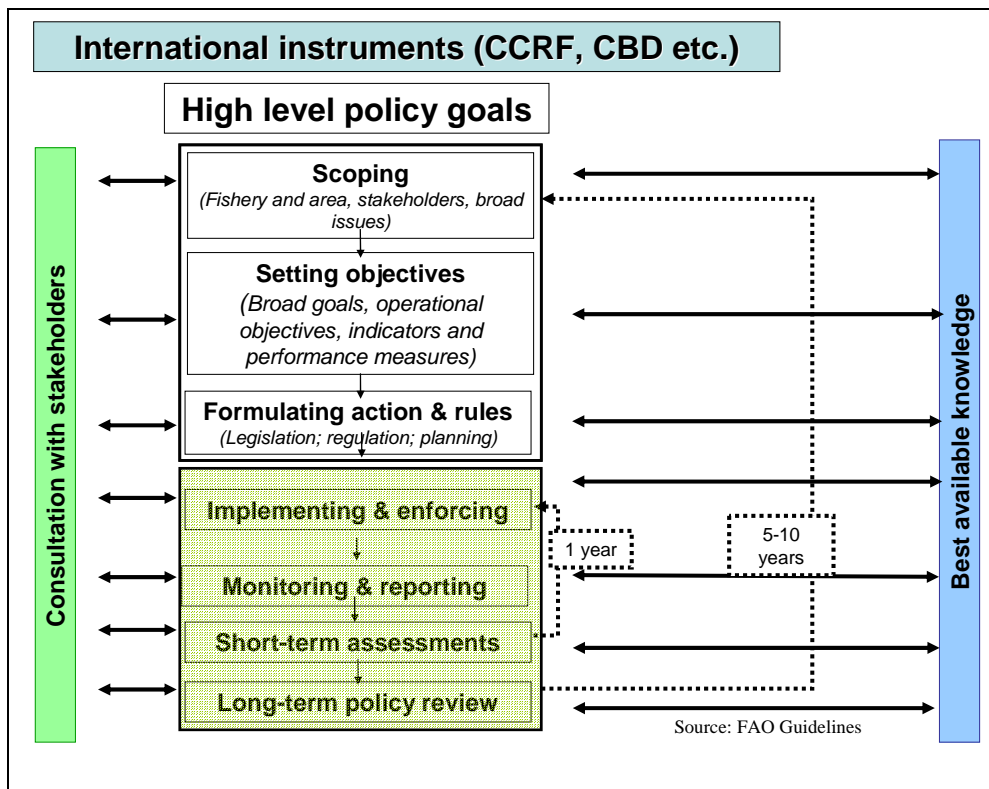
EAF
SLA
TURFS,
Co-man.



- Different approaches have different emphasis
- Their relevance depends on the context

EAF Planning





Conclusions



- The FAO EAF has been adopted by COFI as the most appropriate management framework and is explicitly indicated as the target framework by the WSSD (2002).
- EAF ≠ MPAs or detailed understanding of ecosystems
- The EAF means applying the principles of sustainable development in fisheries. The EAF highlights and reorganizes these principles making their application more imperative.
- The EAF principles are the same as those of the CCRF. The EAF provides a framework for implementing these in a more holistic and structured way.

Conclusions



- There is no 'one size fits all' for EAF. The EAF needs to be tailored to the specific ecological, social and cultural conditions in each specific geographical area. The FAO framework provides a methodology for doing this.
- Ecosystems are complex, the EAF is straightforward. The process of evolution from conventional management has started and is gaining momentum. Valuable experience is already available and valuable action can be readily taken.
- EAF builds on existing fisheries management and can be implemented incrementally. However, a radical change in our thinking and attitudes may be required.

How to structure
the toolbox?

