Agenda item	6.1
Technical Domain / Task Number	Implementation
Author(s) / Submitter(s)	ENAV Committee

Liaison note to PAP
on the IALA e-Navigation Roadmap
and related proposals to restructure IALA's activities concerning e-navigation

1   INTRODUCTION

The ENAV Committee was tasked to develop and maintain a high-level roadmap on IALA's activities concerning e-Navigation and related developments in the maritime domain (Task 4.3.4 of the Committee's 2014-18 work program).

ENAV18 (March 2016) forwarded a draft roadmap to the VTS and ARM Committees for comment and advise. ENAV 19 (September 2016) noted that the VTS Committee provided some general comments. Also, the ARM Committee was supportive of the draft IALA e-Navigation Roadmap.

2   DISCUSSION (1)

The first version of this IALA roadmap is attached. It has generated a number of high-level questions and concerns. They are:

1) Is the ENAV Committee's assumption that the document is intended to be an internal, high-level management tool, for use by Council, PAP and all committees correct?

2) It is important for completeness and a pan-IALA view of the subject, that the document captures the interdependences between the items listed in the road map and the work on e-navigation taking place in the committees. It is only the IALA Secretariat that will be able to provide the required IALA-wide perspective for the road map.

3) It is the opinion of the ENAV Committee that for a more robust management of all IALA activities related to e-navigation, a detailed project management approach should be implemented, showing the interdependences between the items listed in the road map and the work on e-navigation by all committees.

4) Information format - Microsoft Project would be a suitable software program to fulfil the project management approach. However, this needs expertise and resources. The current Microsoft Word version for maintaining the high level roadmap is simple and easy to use – but it cannot display the interdependencies.

5) It is suggested that two documents be maintained:
   • the road map in MS Word format; and
   • a project approach capable software programme with the ability to provide milestones, interdependencies, time lines, progress on tasks etc. in MS Project format.

3   DISCUSSION (2)

The committee is of the view that a guiding mechanism linked to the overall IALA Strategy and Vision 2014-26 is required to deal with the ever-increasing amount of IALA's activities on e-Navigation. This was

reinforced due to the development of a new structure of the section on e-Navigation for the NAVGUIDE and the development of the road map.

The Committee concluded there was a need for such a mechanism, preferably in the format of a specific *Strategy Paper on e-Navigation* with a similar structure as the *overall IALA Strategy for the period 2014-2026* (approved by Council in 2013) and the *IALA Strategy Paper on the future delivery of VTS in a rapidly changing maritime domain* (approved by Council in 2016).

It was also concluded that the overall IALA Strategy 2014-2026 has a very high-level abstraction, suitable for the organization as a whole. However, it was not responding to the growing need to provide cohesion between the diverse activities and IALA's work in the Committees on e-Navigation. This is particularly relevant now, as the number of IALA members are rapidly growing and consequently new participants - not aware of the long and intensive development of e-Navigation - are joining the Committees.

Such a pan-IALA Strategy Paper on e-Navigation would not only provide a more detailed justification and guidance of IALA's activities for the Committees and their members/experts in this field, but also could be the source for the development of the intended Technical Policy Papers as proposed by the Deputy Secretary-General and discussed in Council 62.

The Committee is of the opinion that it would be beneficial for IALA as an prospective future IGO to have such a Strategy Paper. Such a paper would also assist in the relationship with other international organizations, identifying IALA as a transparent, well-structured and credible partner.

This request for the development of a *Strategy Paper on e-Navigation* is timely, as the Committee was advised that in the near future, PAP has the intention to study and discuss IALA's overall Strategy and Vision, with the aim for updating the IALA strategy as a result of evolving developments.

Furthermore, the Committee discussed some other related issues, such as the idea for an eventual merging of VTS and e-Navigation in the short and/or middle term. Although it is recognized that there similarities between the two *concepts,* the Committee advises strongly not to take a step in this direction due to the following:

- the resulting large amount of work would not be manageable;

- VTS is one of the key pillars on which IALA has built its excellent reputation. There is world-wide acknowledgement that IALA is the only global organization with the expertise for the ongoing development of VTS as one of the primary instruments for managing traffic in a variety of sea areas; proposing such a step could bring in an unknown, introduce risk and harm the credibility of IALA as an organization;

- VTS is well embedded in international conventions (SOLAS) and in national legislations. e-Navigation, or aspects thereof, still have a very long way to go before it will reach such a status, if at all;

- Such an idea can expect to be met a lot of resistance at IMO, specifically from Coastal and Port states and also from seagoing stakeholders; the enthusiasm for and confidence in e-Navigation still has not reached a high level, as it is uncertain what the delivery (services) will be.

4   VISUALIZATION OF THE PROPOSALS IN THE PREVIOUS SECTIONS

The proposal for the development of an IALA e-navigation strategy paper (see Discussion 2) is reflected in figure 1 below.
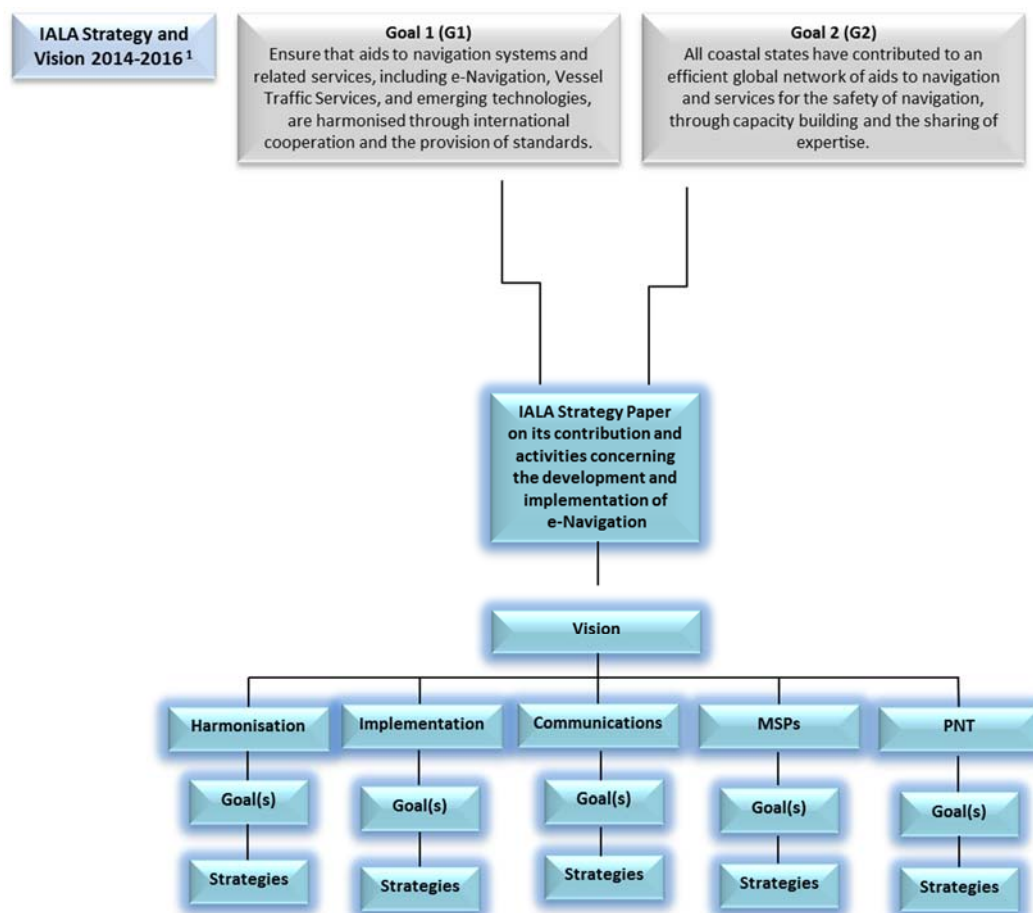

Figure 1

The proposal for the Roadmap being an internal, high-level management tool, for use by Council, PAP and all committees (see Discussion 1, sections 1 and 2) is reflected in figure 2 below.
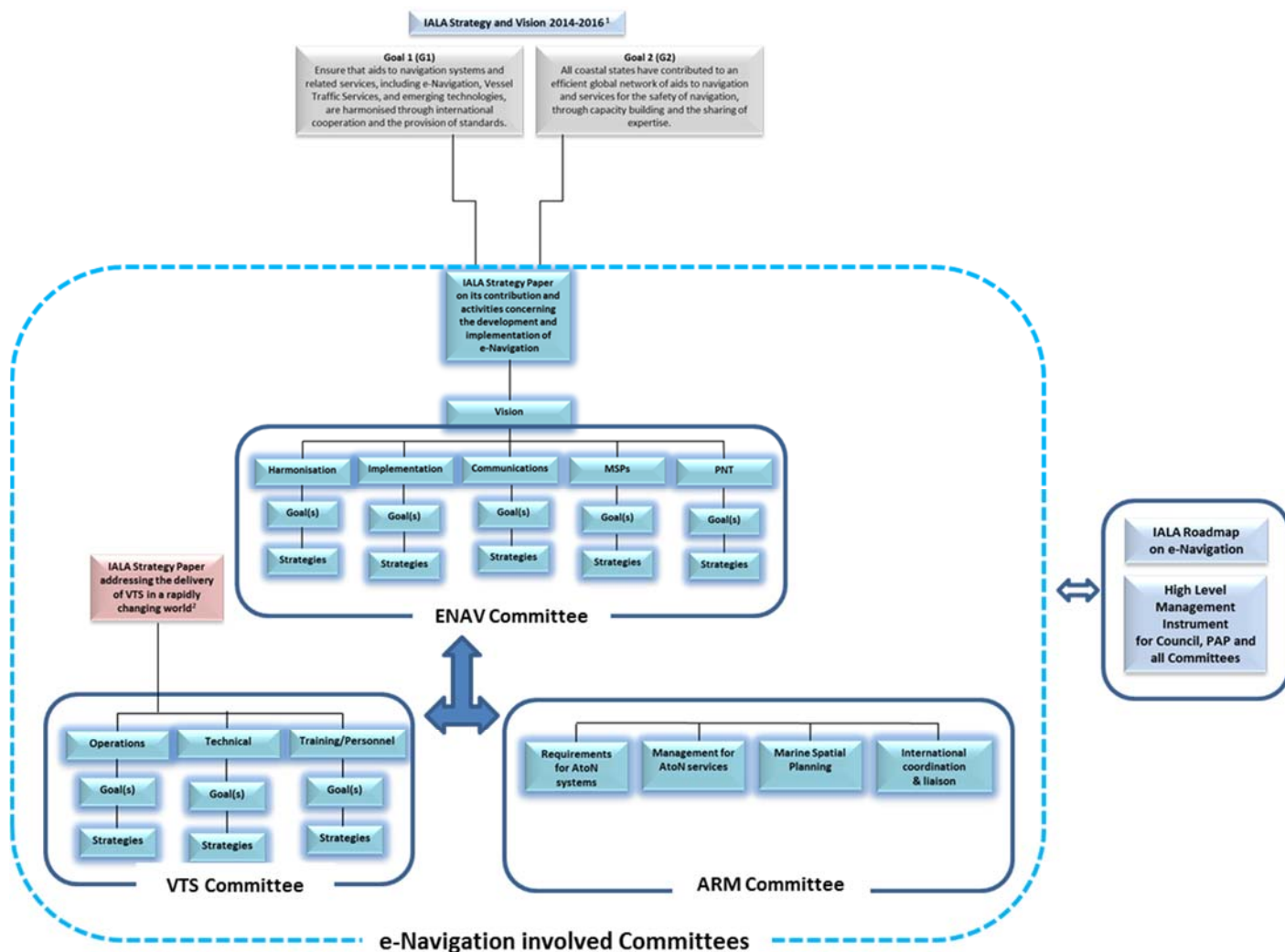
Figure 2

The proposal for the use of a Project Approached Software Programme with detailed milestones, interdependencies, time lines, progress on tasks etc. in MS Project format, for the substantial management of all IALA activities related to e-navigation for the use by the Secretariat, all committees and their working groups (see Discussion 1, sections 3 and 4) is reflected in figure 3 below.
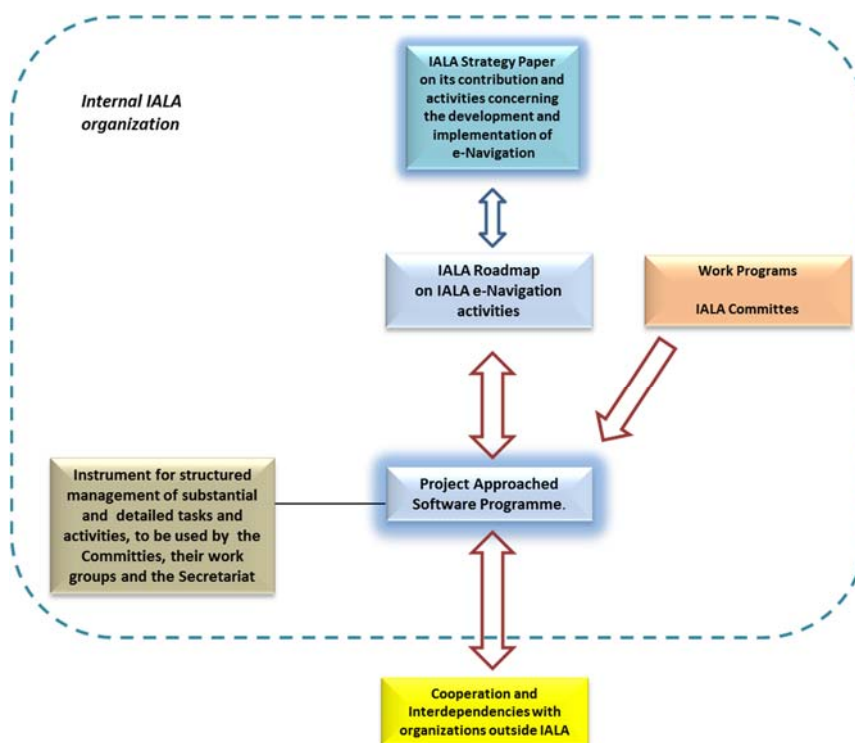
Figure 3

It is intended that the next version of the Roadmap will be complemented by linking each work item, where appropriate, to the approved Work Programmes of the various Committees.

4.1   Related documents

- doc ENAV18-14.2.26

- output doc VTS42-12.1.8, as input doc ENAV19-10.10

5   ACTION REQUESTED OF PAP

PAP is requested to:

1   Note and discuss the information in this liaison note and attached draft road map.

2   Forward the draft road map to the Council for their information, if considered appropriate.

3   Advise the ENAV Committee as to the next steps for the review of the roadmap w.r.t relevance, form and content, level of detail, the frequency of issuing future versions of the roadmap.

4   Consider the proposal and request for the development of an IALA Strategy Paper on e-Navigation and, if considered appropriate, to advise Council positively to task the ENAV Committee with a new task "*Develop a Strategy Paper on e-Navigation*".

5   Consider the use of the proposed Project Approached Software Programme to structure and manage the substantial activities and work on e-Navigation in IALA.

6   Note the considerations and arguments of the Committee on the relationship between VTS and ENAV Committees.