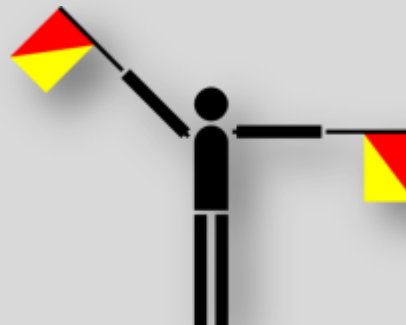




Joint VTS/E-NAV meeting on digital interaction between VTS and ship

Current VTS communications and interactions



Capt. Tuncay ÇEHRELİ
Chairman, IALA VTS Committee



VTs definition

Vessel Traffic Service (VTS) - a service implemented by a Competent Authority, designed to improve the safety and efficiency of vessel traffic and to protect the environment.

The service should have the capability to interact with the traffic and to respond to traffic situations developing in the VTS area.

IMO Res. A.857(20) Guidelines for VTS



Communication & Interaction

Interaction is a kind of action that occurs as two or more objects have an effect upon one another.

Communication (from Latin *commūnicāre*, meaning "to share") is the act of conveying intended meaning to another entity through the use of mutually understood signs and semiotic rules.

The basic steps of communication are the forming of communicative intent, message composition, message encoding, transmission of signal, reception of signal, message decoding and finally interpretation of the message by the recipient.

Wikipedia



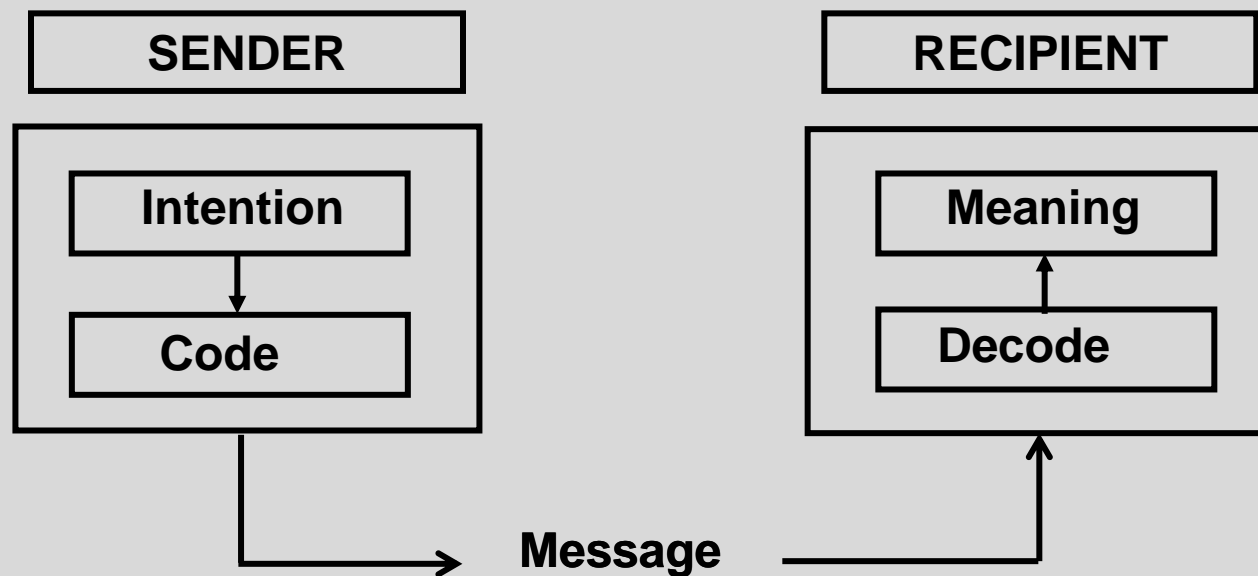
Communication

SENDER

Intention

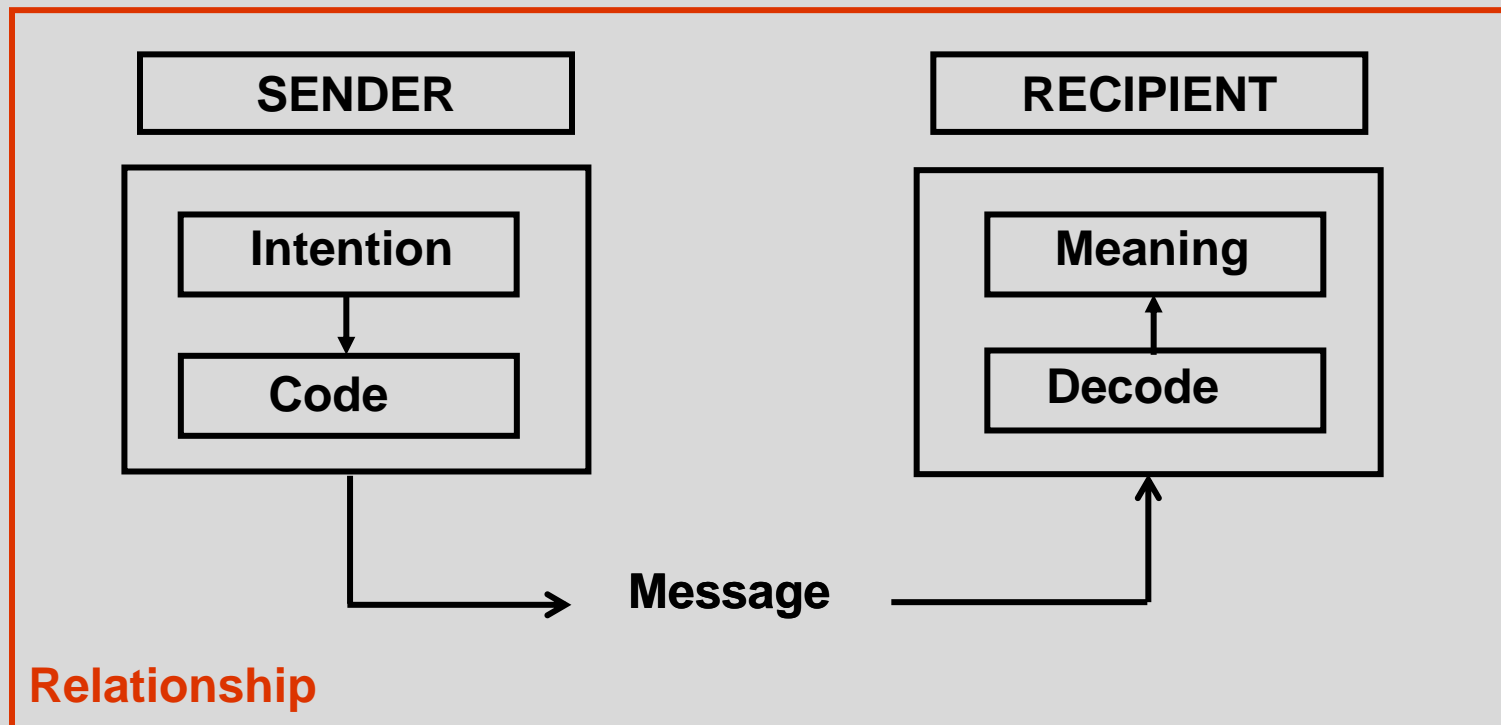


Communication

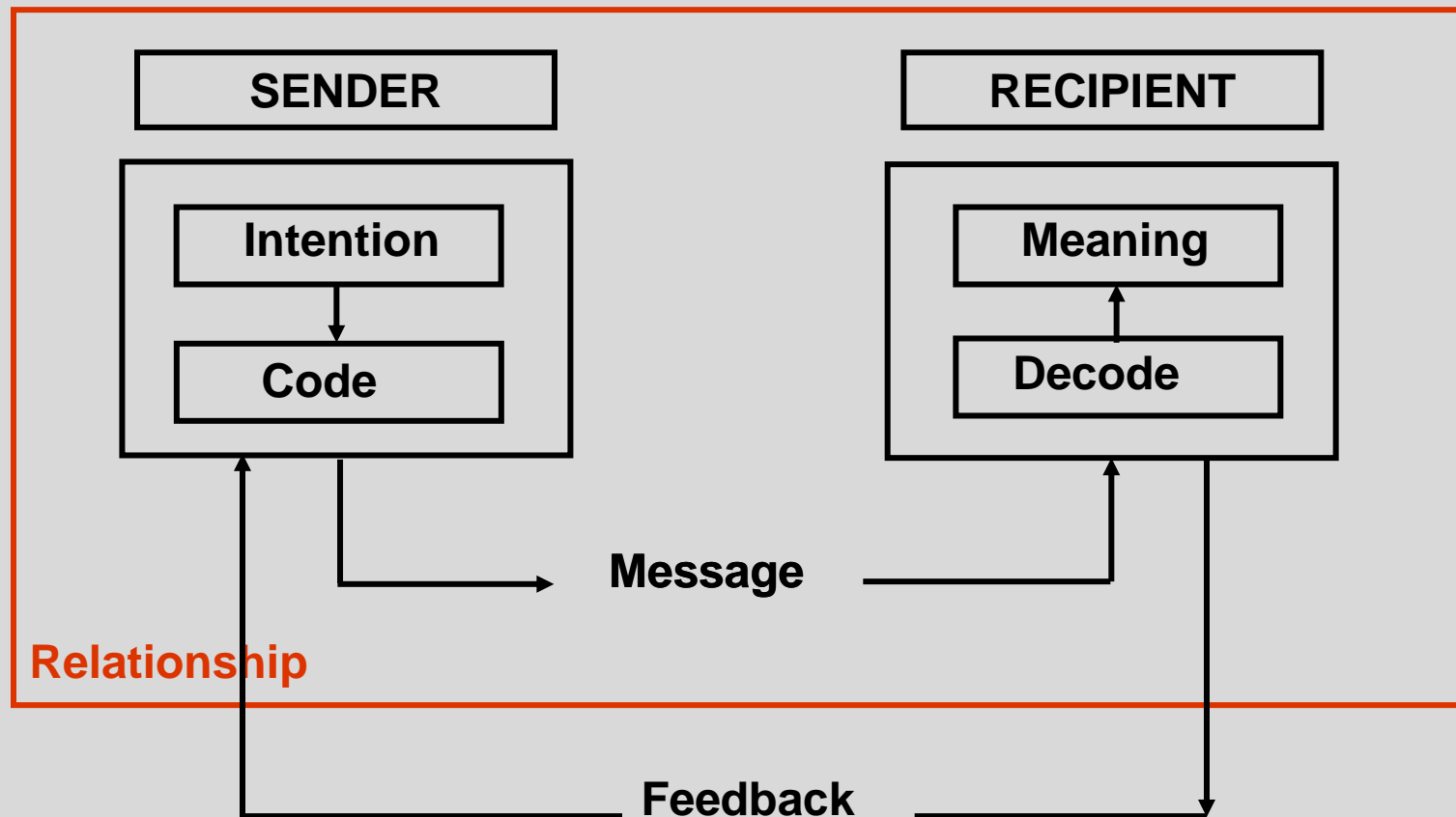




Communication



Communication



Closed-loop communication



An ordinary message

M/V MEGA STAR

THIS IS SECTOR DELTA

INFORMATION

THE VESSEL BEHIND OF YOU WILL OVERTAKE TO
THE WEST OF YOU

OVER



Ship – VTS – ship communication means

Ship to VTS

- VHF
- AIS text
- Fax
- E-mail
- Web
- MHF
- Inmarsat
- Phone

VTS to ship

- VHF
- AIS text
- MHF
- Inmarsat



VHF Communication

Marine VHF (very high frequency) radios require an uninterrupted line of sight between antennas. This limits their range, and they are usually used to communicate over distances of less than about 30 nautical miles. Most marine radio traffic occurs over VHF radio.

Communication procedures

- ITU RR (Radio Regulations)
- IMO SMCP (Standard Marine Communication Phrases)





Communication procedures

As navigational and safety communications from ship to shore and vice versa, from ship to ship, and on board ship must be precise, simple and unambiguous so as to avoid confusion and error, there is a need to standardize the language used. This is of particular importance in the light of the increasing number of internationally trading vessels with crews speaking many different languages, since problems of communication may cause misunderstandings leading to dangers to the vessel, the people on board and the environment.

IMO Resolution A.918(22) Standard Marine Communication Phrases



Communication procedures

Under the International Convention on Standards of Training, Certification and Watchkeeping for Seafarers, 1978, as revised 1995, the ability to use and understand the IMO SMCP is required for the certification of officers in charge of a navigational watch on ships of 500 gross tonnage or more.

IMO Resolution A.918(22) Standard Marine Communication Phrases



Message Markers

A 22/Res.918

- 14 -

3 Message Markers

In shore-to-ship and ship-to-shore communication or radio communication in general, the following eight Message Markers may be used (also see "**Application of Message Markers**" given in PART A1/6 "Vessel Traffic Service (VTS) Standard Phrases"):

- (i) Instruction
- (ii) Advice
- (iii) Warning
- (iv) Information
- (v) Question
- (vi) Answer
- (vii) Request
- (viii) Intention



Message Markers

Message Markers

(i) INSTRUCTION

This indicates that the following message implies the intention of the sender to influence others by a Regulation.

Comment: This means that the sender, e.g. a VTS Station or a naval vessel, must have full authority to send such a message. The recipient has to follow this legally binding message unless he/she has contradictory safety reasons which then have to be reported to the sender.

Example: "INSTRUCTION. Do not cross the fairway."

(ii) ADVICE

This indicates that the following message implies the intention of the sender to influence others by a Recommendation.

Comment: The decision whether to follow the ADVICE still stays with the recipient. ADVICE does not necessarily have to be followed but should be considered very carefully.

Example: "ADVICE. (Advise you) stand by on VHF Channel six nine."



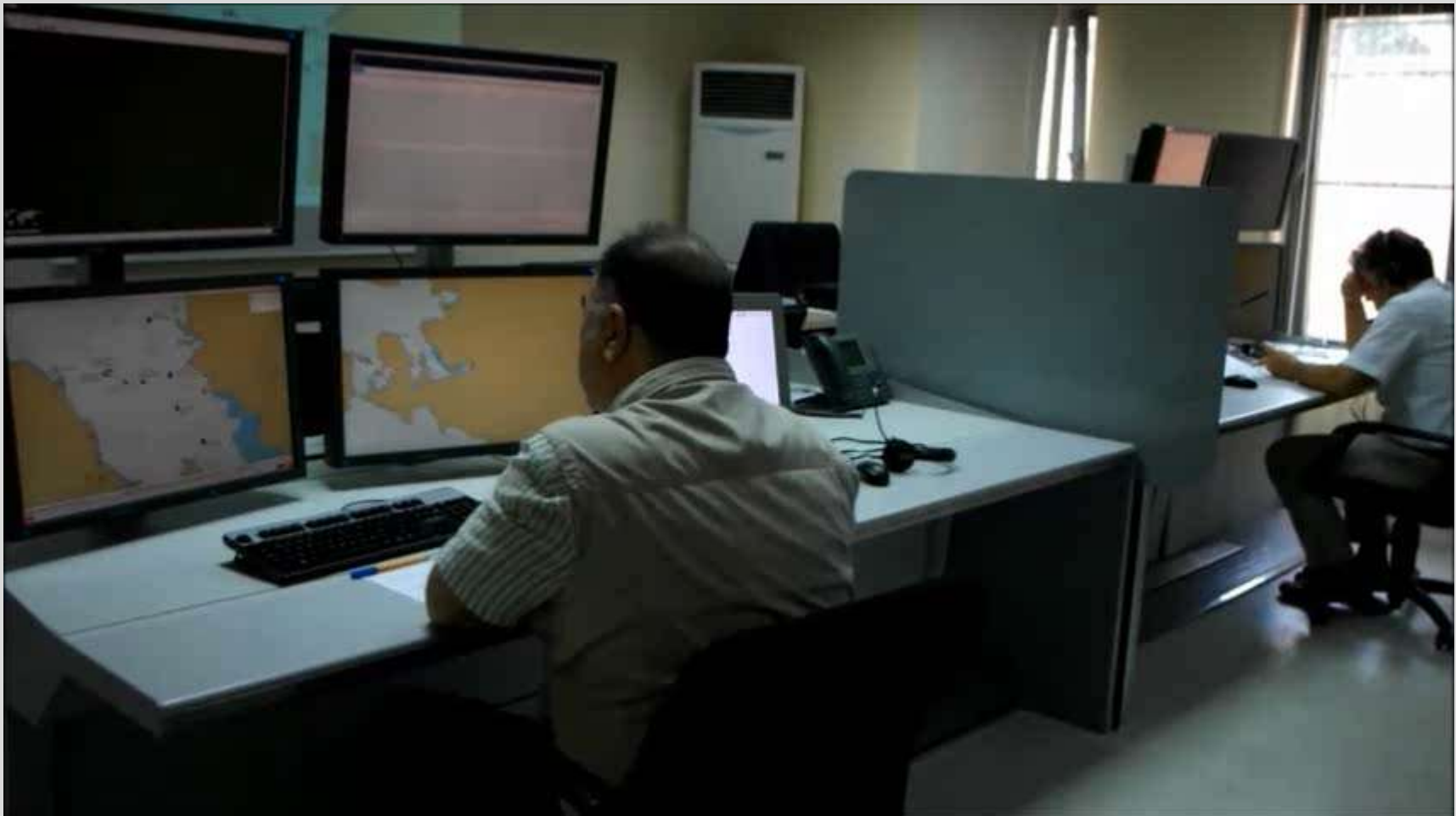
IMO SMCP

- The IMO SMCP is not intended to provide a comprehensive maritime English syllabuss
- The IMO SMCP should be taught and learned selectively according to users' specific needs
- Further communicative features may be summarized as:
 - avoiding synonyms
 - avoiding contracted forms
 - providing fully worded answers to “yes/no” questions and basic alternative answers to sentence questions
 - providing one phrase for one event

IMO Resolution A.918(22) Standard Marine Communication Phrases



Equipment failure on simulation training





Thank you...