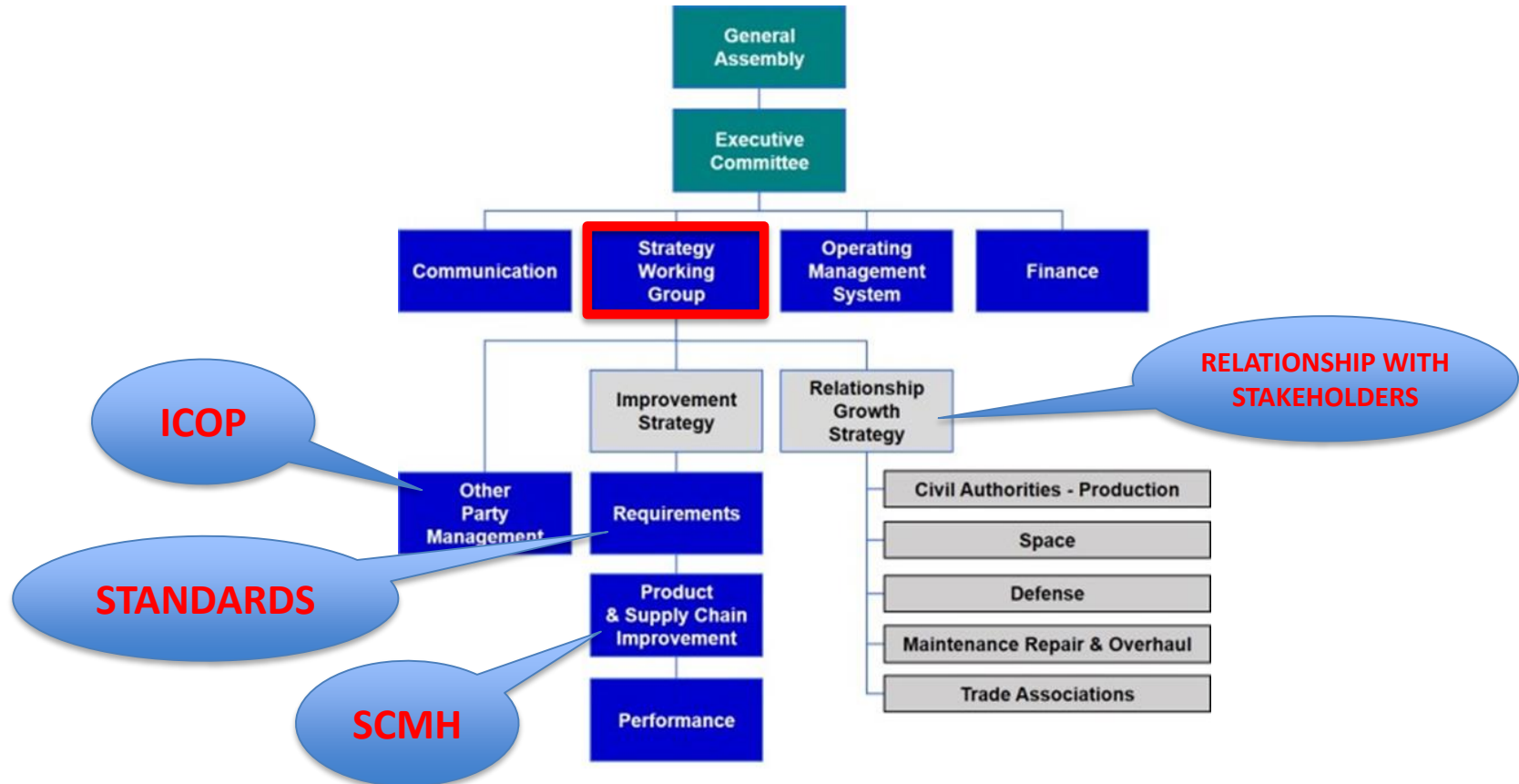# STRATEGY WORKING GROUP

FORTUNATO GIARDINA
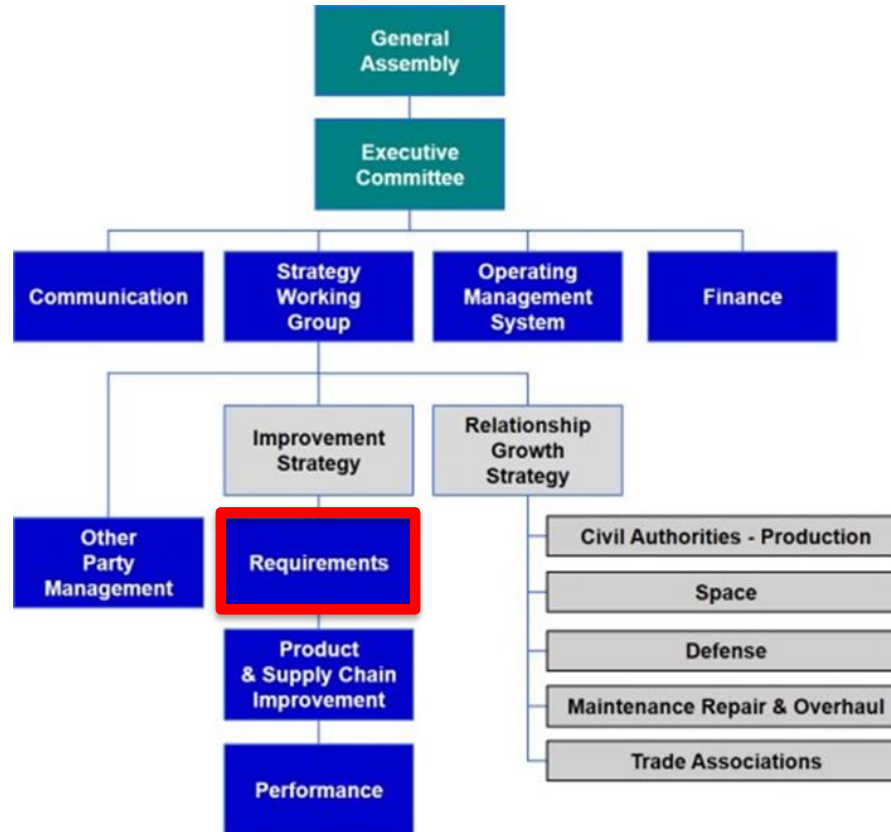
LEONARDO

IAQG Supplier Forum
Berlin, Oct 18, 2019

IAQG Organisation

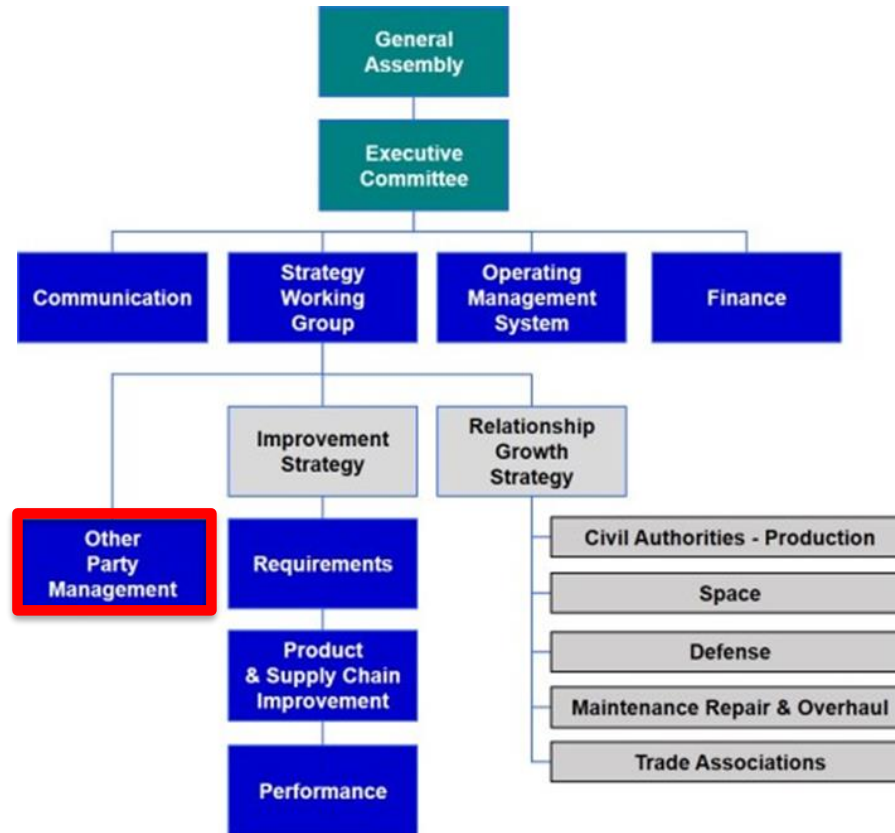# IAQG Organisation

The IAQG is a legally incorporated international not for profit association (INPA) with membership from the Americas, Europe and the Asia Pacific Region (Rev. 08-2015)

Requirement Team: STANDARDS

Std	Title
9100	QMS - Requirements for Aviation, Space and Defense Organizations
9101	QMS Audit Requirements for Aviation, Space, and Defense Organizations
9102	Aerospace First Article Inspection Requirements
9103	Variation Management of Key Characteristics
9104-1	Requirements for Aerospace QMS Certification / Registration Programs
9104-2	Requirements for Oversight of Aerospace QMS Registration/Certification Programs
9104-3	Requirements for Aerospace Auditor Competency and Training Courses
9107	Direct Delivery Authorization Guidance for Aerospace Companies
9110	QMS - Requirements for Aviation Maintenance Organizations
9114	Direct Ship Guidance for Aerospace Companies
9115	QMS - Requirements for Aviation, Space and Defense Organizations - Deliverable Software
9116	Aerospace Series – Notice of Change (NOC) Requirements

Std	Title
9117	Delegated Product Release Verification (DPRV)
9120	QMS - Requirements for Aviation, Space and Defense Distributors
9131	QMS - Nonconformance Data Definition and Documentation
9132	Data Matrix Quality Requirements for Parts Marking
9133	Qualification Procedure for Aerospace Standard Parts
9134	Supply Chain Risk Management Guideline (Inactive)
9136	Root Cause Analysis and Problem Solving
9137	Guidance for the Application of AQAP 2110 within a 9100 Quality Management System
9138	Statistical Product Acceptance
9145	Advance Product Quality Planning (APQP) / Production Part Approval Process (PPAP)
9146	Foreign Object Debris (FOD)
9147	Management of Unsalvageable Items
9162	Aerospace Operator Self-Verification Programs

IAQG Organisation

The IAQG is a legally incorporated international not for profit association (INPA) with membership from the Americas, Europe and the Asia Pacific Region (Rev. 08-2015)
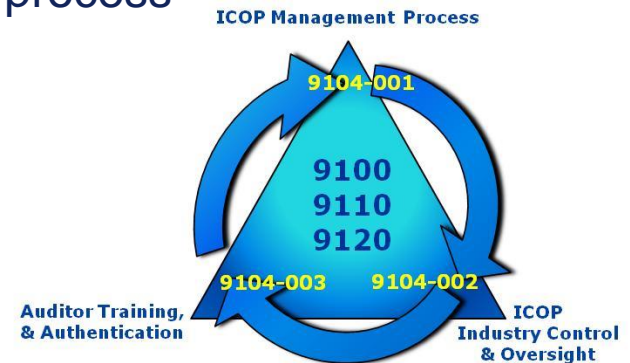
What is ICOP?

- A process for accredited certification of an organisation's **Aerospace** Quality Management System (AQMS)

- **I**ndustry **C**ontrolled:
  - The IAQG ensures direct oversight of all AQMS certification activities

- **O**ther **P**arty:
  - Certifications are completed by accredited certification bodies (other parties) that are recognised through the ICOP process
  - **ICOP** is defined and controlled by the IAQG

ICOP Management Process

9104-001

9100
9110
9120

Auditor Training, & Authentication

9104-003   9104-002

ICOP Industry Control & Oversight

Why ICOP is Successful

- Globally harmonised and accredited certification scheme that is used and recognised globally by major Aviation, Space and Defence companies
- ICOP supports supplier approval activities with a recognised quality management system
- Uses the process approach to conformance assessment
- Focuses on meeting customer expectations

What our success looks like:

- **More than 18,000 AQMS certifications covering 25,000 sites**
- Recognition from authorities including:
  - Federal Aviation Administration (FAA) through FAA order 8120.12A
  - European Aviation Safety Agency through AMC to Part 21A.139(b)(1)(ii)
  - Defence Contracting Management Agencies in the USA and Germany
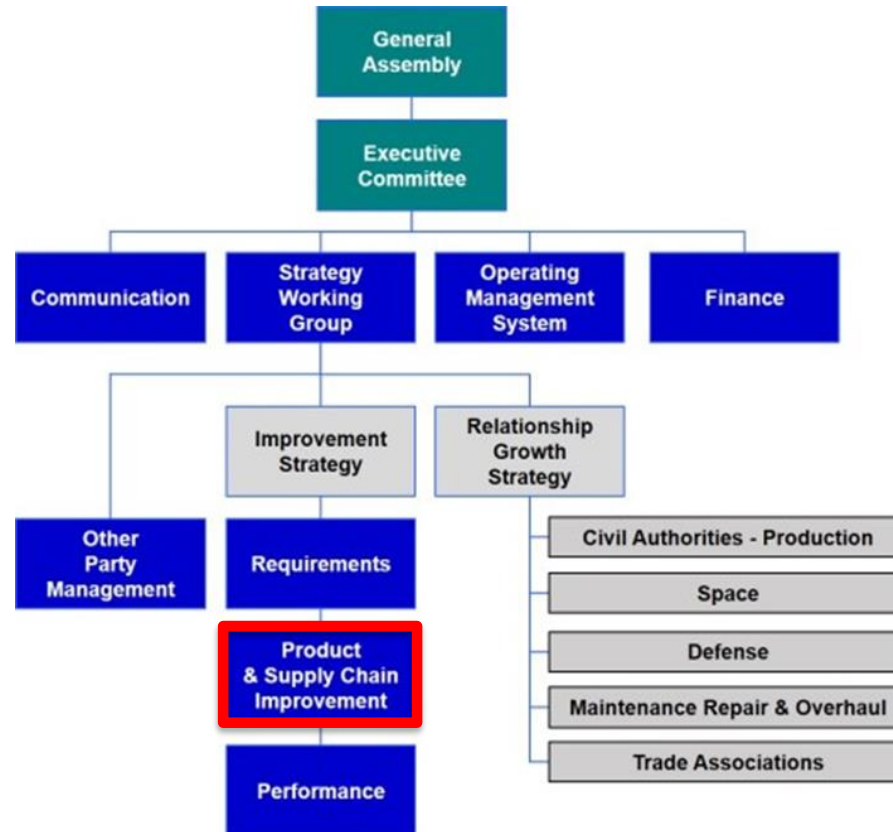
Why ICOP is Successful

- The ICOP scheme is supported by the On-line Aerospace Supplier Information System (OASIS) database
- OASIS holds all of the information relating to AQMS certifications, audit results and details of participating stakeholders

IAQG Organisation

The IAQG is a legally incorporated international not for profit association (INPA) with membership from the Americas, Europe and the Asia Pacific Region (Rev. 08-2015)

The Supply Chain Management Handbook

– The SCMH is a set of **guidance material and tools** developed by IAQG subject matter experts to help improving "On Time and On Quality" performance through out the entire supply chain

– It is available on **IAQG Website** to all levels of the supply chain

– Downloading of the guidance is **totally free**

– It is **continuously evolving** (new or revised sections)

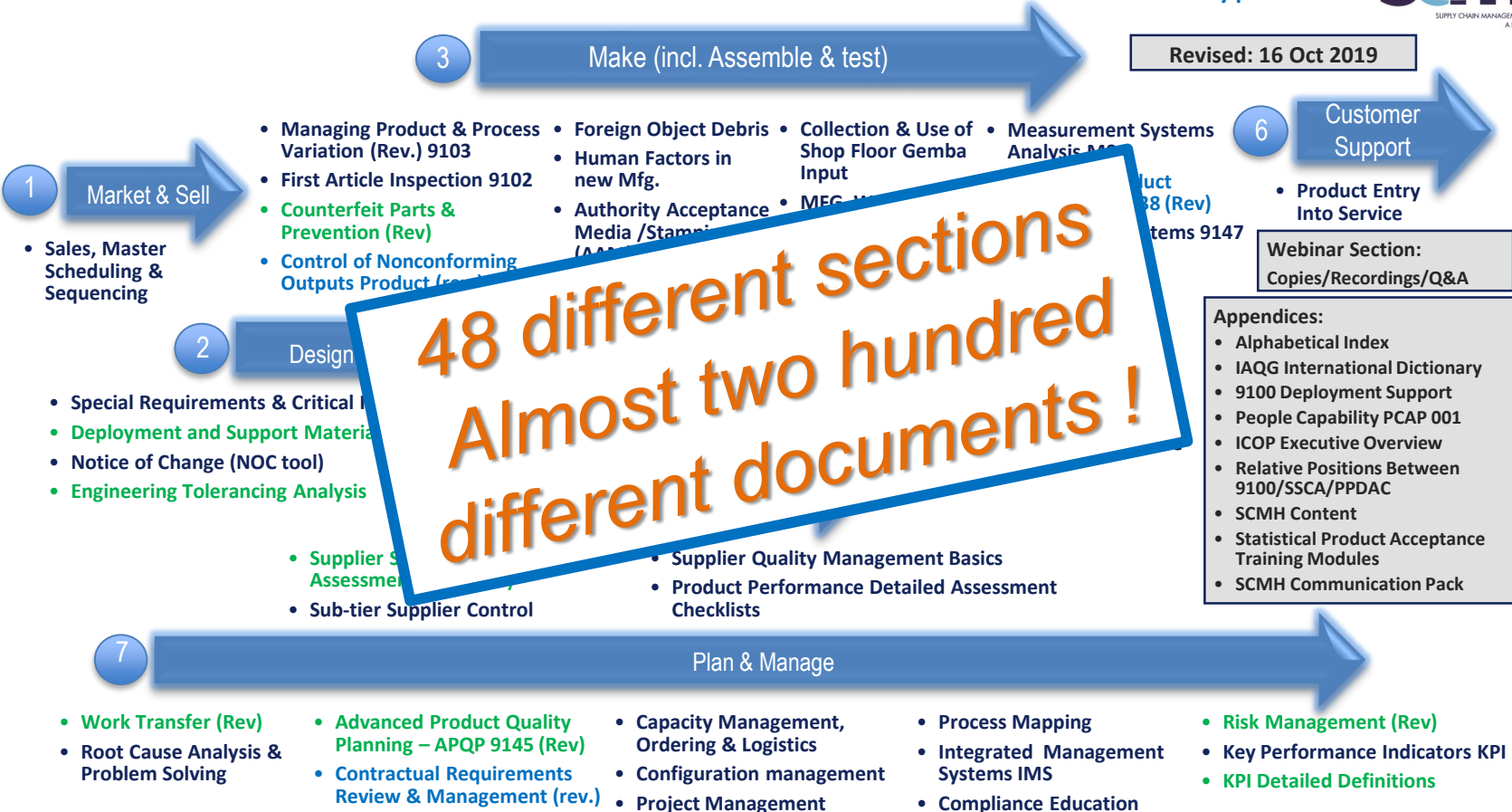The IAQG is a legally incorporated international not for profit association (INPA) with membership from the Americas, Europe and the Asia Pacific Region (Rev. 08-2015)

SCMH Content

scmh
SUPPLY CHAIN MANAGEMENT HANDBOOK
A PRODUCT OF IAQG

Revised: 16 Oct 2019

CUSTOMER

3 Make (incl. Assemble & test)

1 Market & Sell

- Sales, Master Scheduling & Sequencing

- Managing Product & Process Variation (Rev.) 9103
- First Article Inspection 9102
- Counterfeit Parts & Prevention (Rev)
- Control of Nonconforming Outputs Product (rev.)

- Foreign Object Debris
- Human Factors in new Mfg.
- Authority Acceptance Media /Stamp (AAM)

- Collection & Use of Shop Floor Gemba Input
- MFG.

- Measurement Systems Analysis MSA

6 Customer Support

- Product Entry Into Service
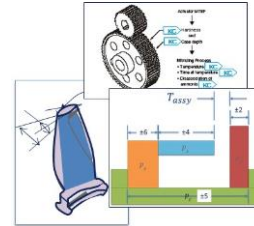
Webinar Section:
Copies/Recordings/Q&A

Appendices:
- Alphabetical Index
- IAQG International Dictionary
- 9100 Deployment Support
- People Capability PCAP 001
- ICOP Executive Overview
- Relative Positions Between 9100/SSCA/PPDAC
- SCMH Content
- Statistical Product Acceptance Training Modules
- SCMH Communication Pack

2 Design

- Special Requirements & Critical
- Deployment and Support Material
- Notice of Change (NOC tool)
- Engineering Tolerancing Analysis

- Supplier Assessment
- Sub-tier Supplier Control

- Supplier Quality Management Basics
- Product Performance Detailed Assessment Checklists

48 different sections Almost two hundred different documents !

7 Plan & Manage

- **Work Transfer (Rev)**
- Root Cause Analysis & Problem Solving

- **Advanced Product Quality Planning – APQP 9145 (Rev)**
- **Contractual Requirements Review & Management (rev.)**

- Capacity Management, Ordering & Logistics
- Configuration management
- Project Management

- Process Mapping
- Integrated Management Systems IMS
- Compliance Education

- **Risk Management (Rev)**
- Key Performance Indicators KPI
- **KPI Detailed Definitions**

Currently working in particular on:

APQP and Work Transfer
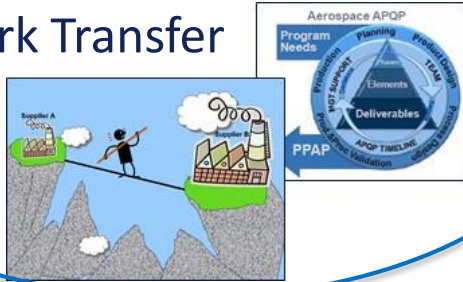
Engineering Tools

KPI's definitions

Ethics and Compliance

The IAQG is a legally incorporated international not for profit association (INPA) with membership from the Americas, Europe and the Asia Pacific Region (Rev. 08-2015)

Access to SCMH and Webinars

www.iaqg.org

Click here ① then "register" (first time) or "log in" ② and open the SCMH

Webinars are organized. See "Announcement" page ③ for schedule and registration

IAQG Organisation

The IAQG is a legally incorporated international not for profit association (INPA) with membership from the Americas, Europe and the Asia Pacific Region (Rev. 08-2015)
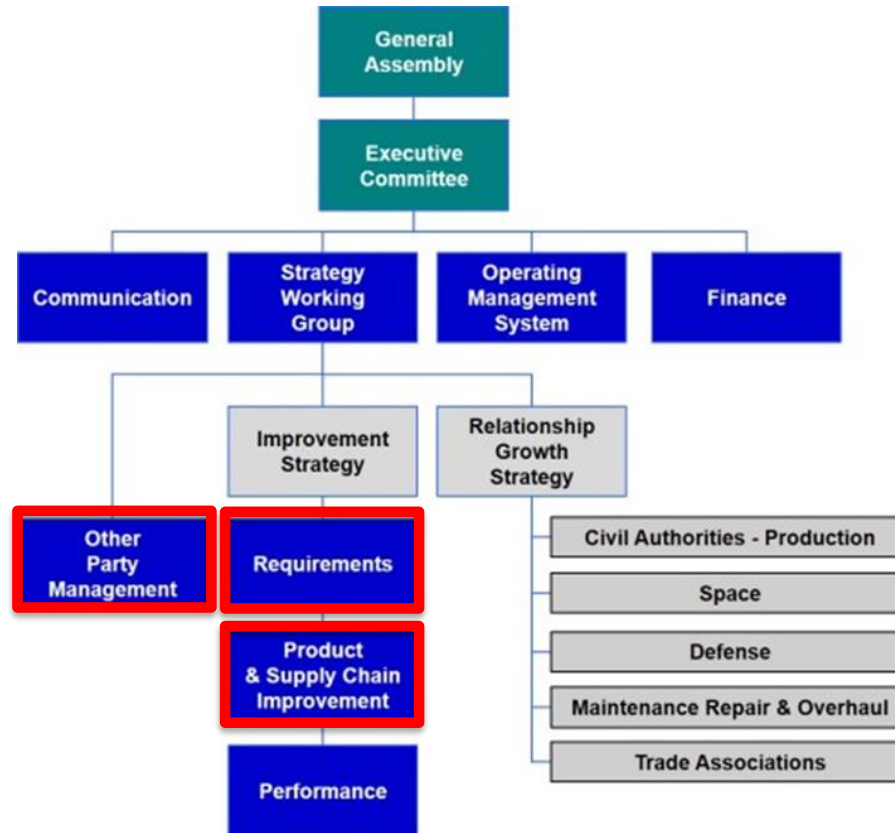
IAQG Document Alignment

IAQG Products and Services

OPMT

OPMT ICOP Certification Scheme

Certification Scheme Oversight

9104 1 (certification)	**9104 2** (surveillance/certs)	**9104 3** (auditors)

Certification Standards

- **9100 QMS**
- **9110 QMS Maintenance**
- **9120 QMS Distributors**

9101 QMS Audit

Certification Support Standards

9115 QMS Software	9137 QMS AQAP 2110

REQUIREMENTS

Improvement/Flow down Standards

9102 FAI	9103 Key Charact.	9107 DDA	9114 Direct Ship	9116 NoC	9131 Nonconform	9132 Unsalvage.
9133 Supp Quality	9136 Root Cause	9137 AQAP 2110	9138 Stat Prod Ac	9145 APQP/PPAP	9146 FOD	9147 Unsalvage	9162 Self Verification

PSCI

Supply Chain Management Handbook (SCMH)

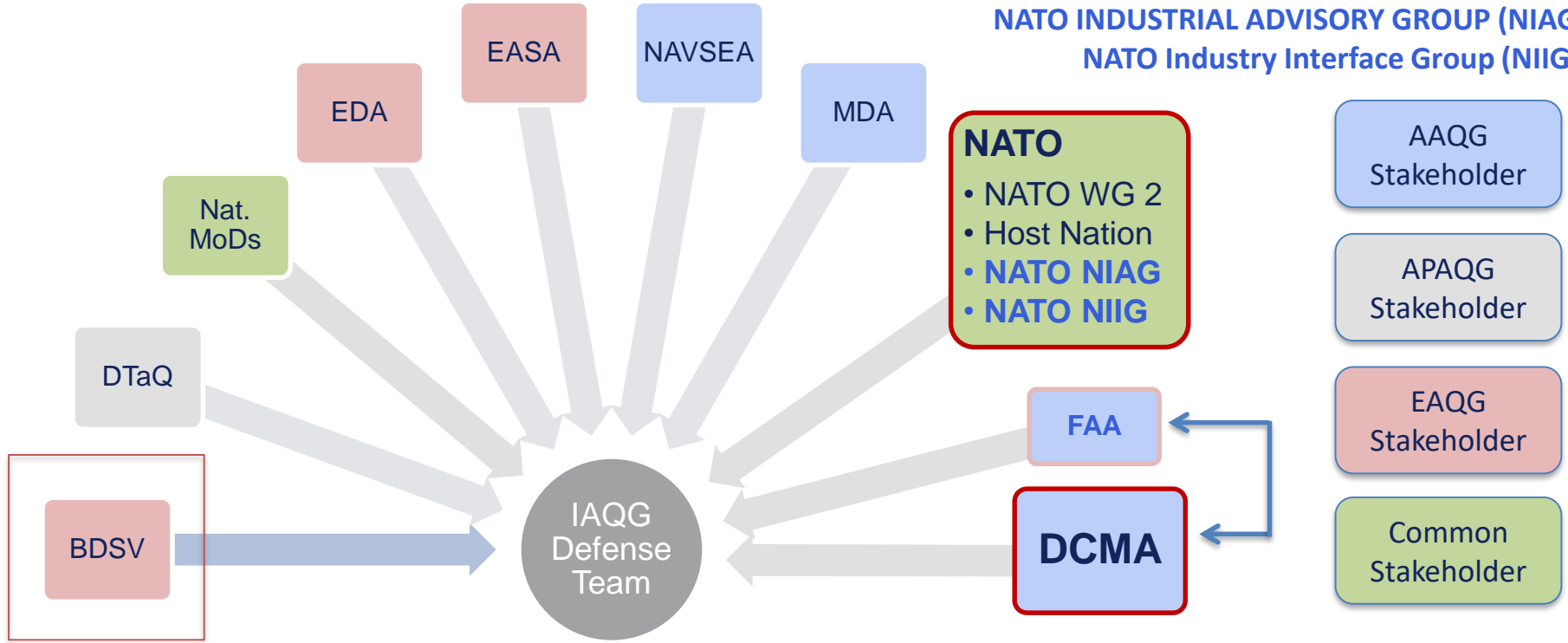| Market & Sell	Design & Develop	Make	Buy	Deliver	Customer Support	Plan & Manage	Webinars

IAQG Organisation

Working With Our Stakeholders - Landscape

NATO INDUSTRIAL ADVISORY GROUP (NIAG)
NATO Industry Interface Group (NIIG)

EASA

NAVSEA

EDA

MDA

NATO
- NATO WG 2
- Host Nation
- **NATO NIAG**
- **NATO NIIG**

AAQG Stakeholder

Nat. MoDs

APAQG Stakeholder

DTaQ

EAQG Stakeholder

FAA

BDSV

IAQG Defense Team

DCMA

Common Stakeholder

awareness/acceptance → **harmonise/align** → **EFFICIENCY**

17

IAQG Organisation

ICOP

STANDARDS

SCMH

RELATIONSHIP WITH STAKEHOLDERS

Strategic Objectives

- ❑ Deliver Improved Product and Service Quality through the Supply Chain

- ❑ Robust Product/Process Design and Effective Change Management

- ❑ Data Driven QMS Improvements to Predict and Prevent risks

- ❑ Stakeholders value the 9100 Series and Certifications

- ❑ Deploy an Operating/Resiliency Plan Accelerating IAQG Product to Stakeholders

- ❑ Proactively Manage Partnerships to deliver IAQG Goals and Offerings

FOCUS ON BUSINESS SCOPE

FOCUS ON IAQG ENABLERS

19

Strategic Objectives

- ❑ **Deliver Improved Product and Service Quality through the Supply Chain**

- ❑ **Robust Product/Process Design and Effective Change Management**

- ❑ **Data Driven QMS Improvements to Predict and Prevent risks**

- ❑ Stakeholders value the 9100 Series and Certifications

- ❑ Deploy an Operating/Resiliency Plan Accelerating IAQG Product to Stakeholders

- ❑ Proactively Manage Partnerships to deliver IAQG Goals and Offerings

IAQG Supplier Forum – 18 October 2019
Berlin, Germany

Proudly Hosted by