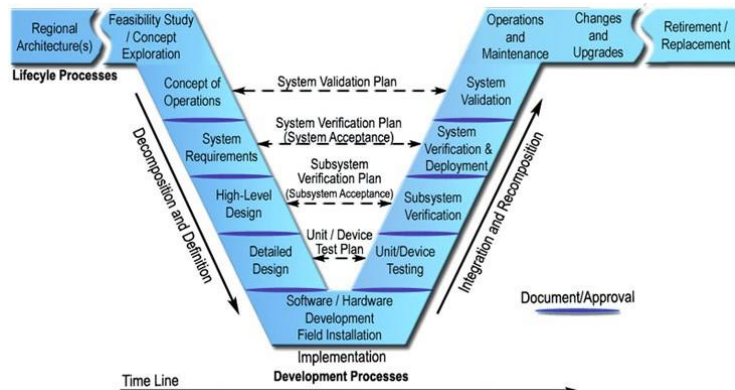


MIET2565 | MIET2566

Systems Engineering Principles

SE V Lifecycle – Model-based System Engineering

Industry Application of INCOSE SE V Lifecycle Model



<https://www.defence.gov.au/business-industry/procurement/policies-guidelines-templates>

Procurement framework | Business

defence.gov.au/business...

DEFENCE MINISTERS NAVY ARMY AIR FORCE

Australian Government Defence

Home Defence Activities ADF Members & Families Business & Industry Jobs & Careers News & Events About

Home / Business & Industry / Procurement and contracting / Procurement framework

Procurement framework

The Commonwealth Procurement Rules (CPRs) are the foundation of the Commonwealth Procurement Framework. The CPRs are supported by a range of tools, guidance material and templates developed and maintained by the Department of Finance to provide assurance, accountability and transparency into Government procurement activities. These processes and practices make it easier for businesses to participate in the economy and grow their business through contracting to the Australian Government.

Defence provides policy and best practice guidance to Defence officials throughout the procurement lifecycle to assist them in carrying out their obligations under the Commonwealth Procurement Framework and Defence-specific requirements.

Defence utilises a number of tendering and contracting templates, including the Commonwealth Contracting Suite (CCS), Australian Standard for Defence Contractings (ASDEFCON) suite of tendering and contracting templates, and the suite of Facilities Contracts. The templates are tailored to meet different procurement needs and profiles, depending on the size, complexity and nature of the procurement activity.

Procurement and contracting

- Procurement framework
- Types of procurement
- Procurement guidance
- Procurement policies and legislation
- Contract awarding
- Procurement complaints scheme
- Public Interest Certificates

Technical Data = SE V Lifecycle Data

<https://www.defence.gov.au/business-industry/procurement/policies-guidelines-templates/procurement-guidance/intellectual-property-framework>

- Strategic Materiel
- Complex Materiel
- Support
- Services
- Goods
- Maintenance Services

The screenshot shows the Australian Government Defence website. The header includes the Australian Government logo and the word 'Defence'. A navigation bar lists various sections: Home, Defence Activities, ADF Members & Families, Business & Industry (highlighted), Jobs & Careers, News & Events, and About. Below the navigation bar, a breadcrumb trail reads: Home / Business & Industry / Procurement and contracting / Procurement framework / Procurement guidance / Technical Data and Intellectual Property Framework. The main heading is 'Technical Data and Intellectual Property Framework'. The text below states: 'The ASDEFCON Technical Data / Intellectual Property (TD/IP) framework is a key Defence reform initiative to improve and streamline Defence procurement processes. The framework achieves a more appropriate balance between the TD/IP needs of Defence and the protection of industry's interests, as well as reflecting the fundamental importance of TD as a key enabler of capability outcomes.' Below this is the section 'ASDEFCON Provisions' with the text: 'The ASDEFCON TD / IP framework has been published in:'. A red dashed box highlights a list of provisions: ASDEFCON (Strategic Materiel); ASDEFCON (Complex Materiel) Volume 2; ASDEFCON (Support); ASDEFCON (Services); ASDEFCON (Standing Offer for Goods and Maintenance Services); ASDEFCON (Standing Offer for Goods); and ASDEFCON (Standing Offer for Services). On the right side, there is a sidebar titled 'Procurement and contracting' with a list of links: Procurement framework (selected), Types of procurement, Procurement guidance (highlighted with a red dot), Procurement policies and legislation, Contract awarding, Procurement complaints scheme, and Public Interest Certificates.

Technical Data and Intellectual Property Framework

The ASDEFCON Technical Data / Intellectual Property (TD/IP) framework is a key Defence reform initiative to improve and streamline Defence procurement processes. The framework achieves a more appropriate balance between the TD/IP needs of Defence and the protection of industry's interests, as well as reflecting the fundamental importance of TD as a key enabler of capability outcomes.

ASDEFCON Provisions

The ASDEFCON TD / IP framework has been published in:

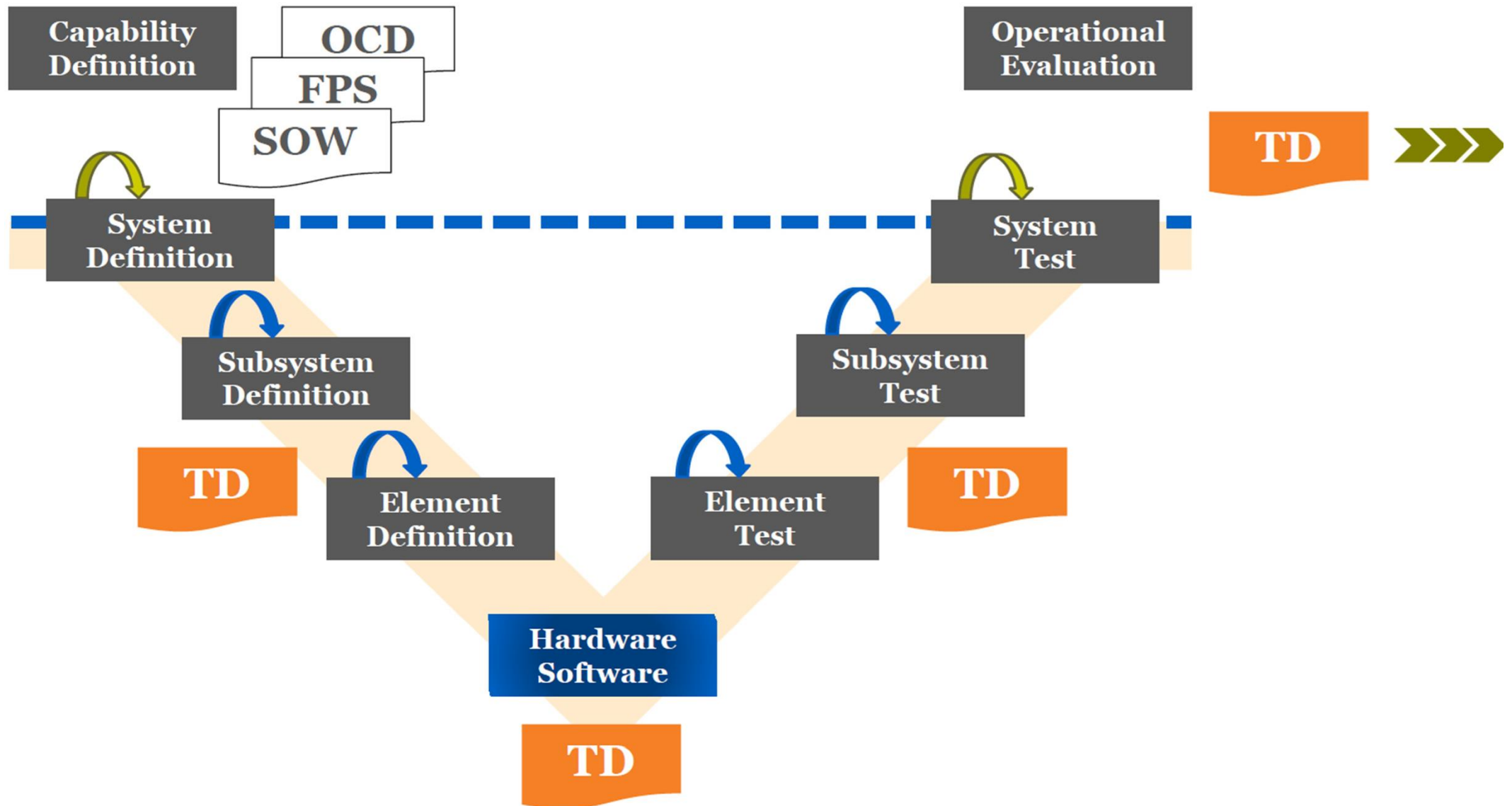
- [ASDEFCON \(Strategic Materiel\)](#);
- [ASDEFCON \(Complex Materiel\) Volume 2](#);
- [ASDEFCON \(Support\)](#);
- [ASDEFCON \(Services\)](#);
- [ASDEFCON \(Standing Offer for Goods and Maintenance Services\)](#);
- [ASDEFCON \(Standing Offer for Goods\)](#); and
- [ASDEFCON \(Standing Offer for Services\)](#)

Procurement and contracting

- Procurement framework
- Types of procurement
- Procurement guidance
- Procurement policies and legislation
- Contract awarding
- Procurement complaints scheme
- Public Interest Certificates

Technical Data in Systems Engineering

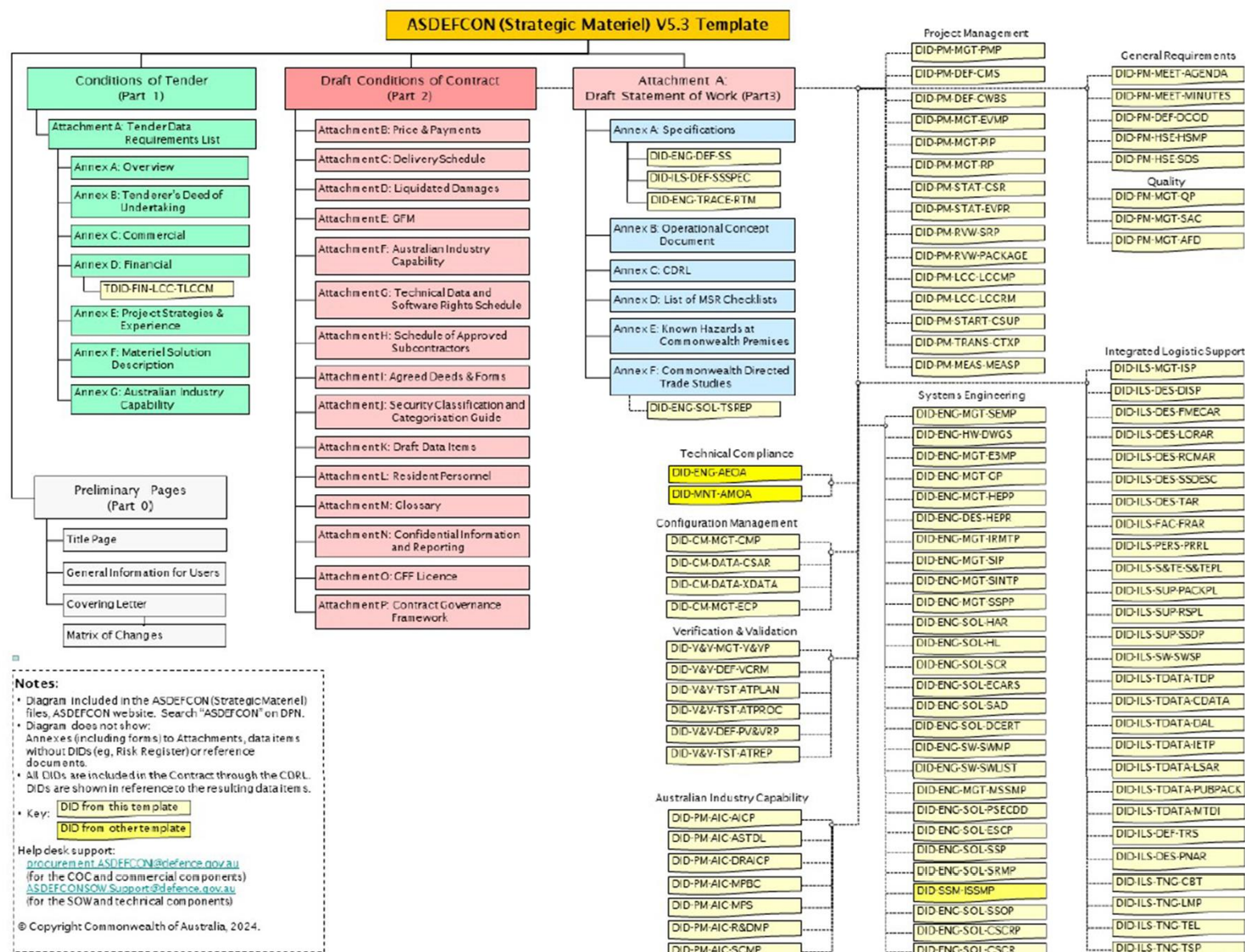
Systems Engineering Process



Technical Data for Strategic Materiel

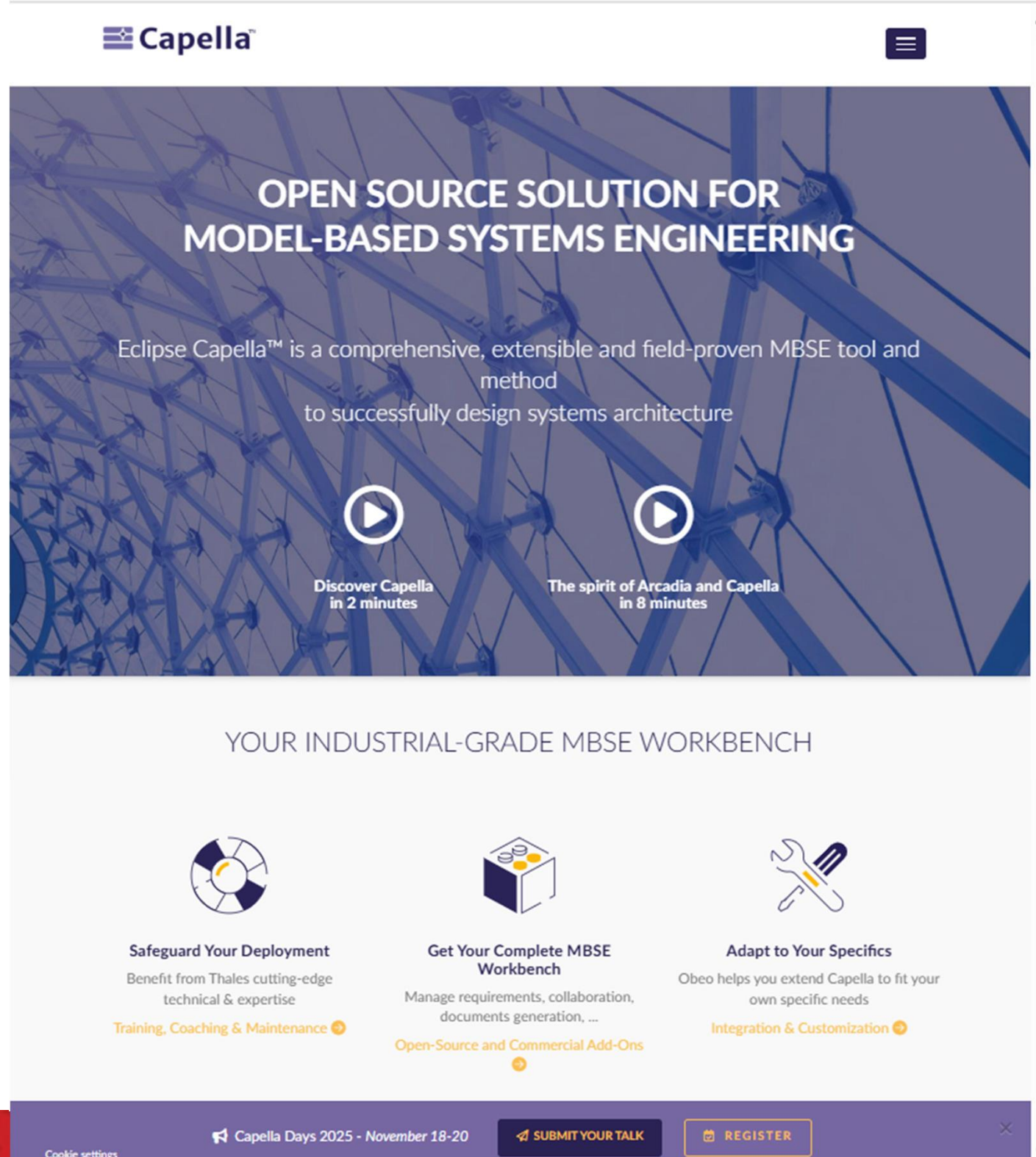
OFFICIAL

ASDEFCON (Strategic Materiel)



CAPELLA – Model- Based Systems Engineering

In Google, search
“Capella MBSE”



The screenshot shows the Capella website. At the top is the Capella logo and a hamburger menu. The main header features the text "OPEN SOURCE SOLUTION FOR MODEL-BASED SYSTEMS ENGINEERING" over a background image of a complex structural lattice. Below this, a paragraph states: "Eclipse Capella™ is a comprehensive, extensible and field-proven MBSE tool and method to successfully design systems architecture". Two video thumbnails are displayed: "Discover Capella in 2 minutes" and "The spirit of Arcadia and Capella in 8 minutes". The section "YOUR INDUSTRIAL-GRADE MBSE WORKBENCH" follows, containing three columns of services: "Safeguard Your Deployment" (benefiting from Thales expertise and offering training), "Get Your Complete MBSE Workbench" (managing requirements and documents), and "Adapt to Your Specifics" (extending Capella with Obeo and integration services). The footer includes a "Cookie settings" link, "Capella Days 2025 - November 18-20" information, and buttons for "SUBMIT YOUR TALK" and "REGISTER".

Capella™

OPEN SOURCE SOLUTION FOR MODEL-BASED SYSTEMS ENGINEERING

Eclipse Capella™ is a comprehensive, extensible and field-proven MBSE tool and method to successfully design systems architecture

Discover Capella in 2 minutes

The spirit of Arcadia and Capella in 8 minutes

YOUR INDUSTRIAL-GRADE MBSE WORKBENCH



Safeguard Your Deployment
Benefit from Thales cutting-edge technical & expertise
Training, Coaching & Maintenance ➔



Get Your Complete MBSE Workbench
Manage requirements, collaboration, documents generation, ...
Open-Source and Commercial Add-Ons ➔



Adapt to Your Specifics
Obeo helps you extend Capella to fit your own specific needs
Integration & Customization ➔

Capella Days 2025 - November 18-20

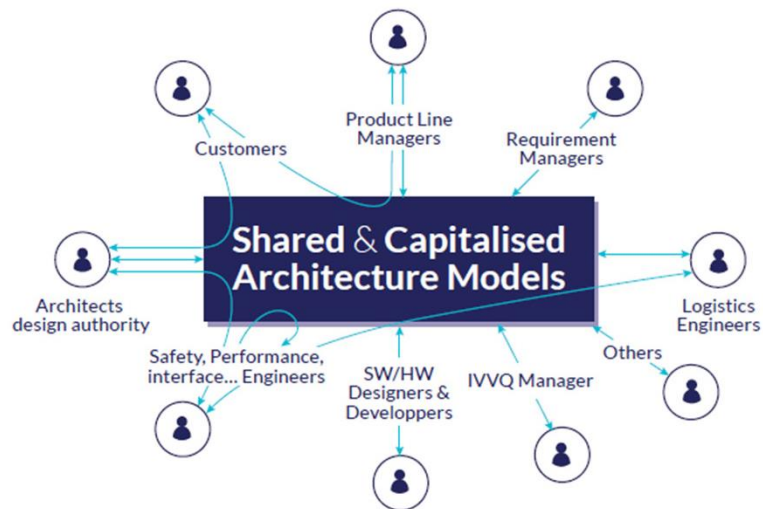
[SUBMIT YOUR TALK](#)

[REGISTER](#)

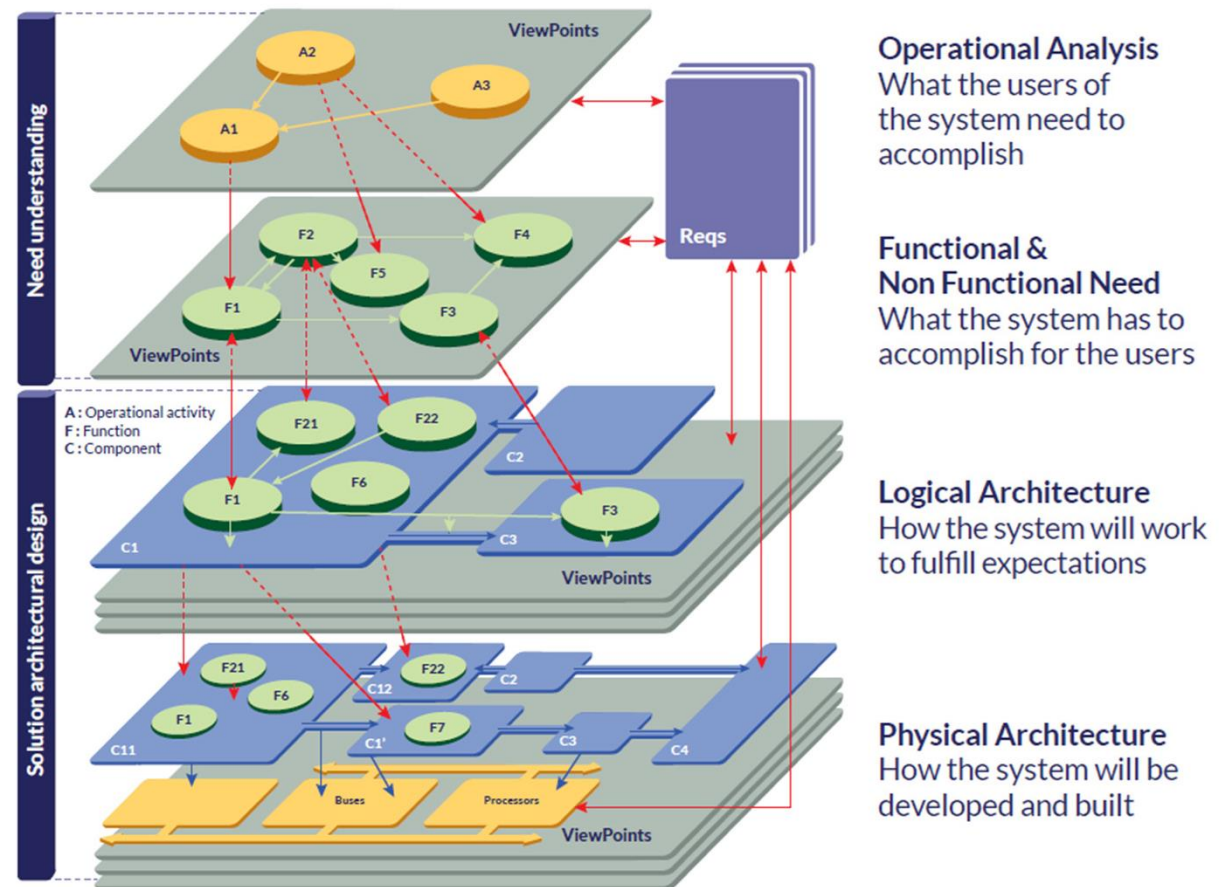
Cookie settings

What does Capella do?

Supporting
Efficient Collaboration
in Engineering



Validating/Justifying
solution against **Operational Need**
Easing **Impact Analysis**



Capella Information

- Software “Capella 7.0.1 for Windows 64-bit”
- Download from <https://mbse-capella.org/download.html>
- Webinar “Introduction to MBSE with Arcadia & Capella | Obeo | Capella Webinar” presented by Thibault France
- Video recording https://www.youtube.com/watch?v=wp-WKMM_20U

(This) Week 7

- Browse web site: <https://mbse-capella.org/>
- Download software and install to your own system
- Watch educational videos from Capella web site
- Try to use Capella to model one of the three cases in the last 6 weeks.

Questions?