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São Paulo- SP

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Asas que protegem o País

Top 100 for 2018

2018 Top 100 Click headers to sort

2018



Rank	Last Year's Rank	Company	Leadership	Country	2017 Defense Revenue* (in millions)	2016 Defense Revenue* (in millions)	% Defense Revenue Change	2017 Total Revenue* (in millions)	Revenue From Defense
1	1	Lockheed Martin ¹	Marilyn Hewson, Chairman, President and CEO	U.S.	\$47,985.00	\$43,468.00	10%	\$51,048.00	94%
2	4	Raytheon Company ¹	Thomas Kennedy, Chairman and CEO	U.S.	\$23,573.64	\$22,384.17	5%	\$25,348.00	93%
3	3	BAE Systems	Charles Woodburn, CEO	U.K.	\$22,380.04	\$23,621.84	-5%	\$25,288.20	88%
4	5	Northrop Grumman ²	Wes Bush, Chairman and CEO	U.S.	\$21,700.00	\$20,200.00	7%	\$25,803.00	84%
5	2	Boeing ³	Dennis Muilenburg, President and CEO	U.S.	\$20,561.00	\$20,180.00	2%	\$94,005.00	22%
6	6	General Dynamics ⁴	Phebe Novakovic, Chairman and CEO	U.S.	\$19,587.00	\$19,696.00	-1%	\$30,973.00	63%
7	7	Airbus	Thomas Enders, CEO	Netherlands/France	\$11,185.91	\$12,321.00	-9%	\$75,702.63	15%
8	11	Almaz-Antey ⁵	Yan Novikov, CEO	Russia	\$9,125.02	\$6,581.69	39%	\$9,125.02	100%
9	10	Thales	Patrice Caine, Chairman and CEO	France	\$8,926.13	\$8,362.00	7%	\$17,852.26	50%
10	9	Leonardo	Alessandro Profumo, CEO	Italy	\$8,856.48	\$8,526.22	4%	\$13,024.24	68%
11	12	United Technologies	Gregory Hayes, Chairman and CEO	U.S.	\$7,826.00	\$6,888.00	14%	\$60,200.00	13%
12	8	L3 Technologies ⁶	Christopher Kubasik, Chairman, CEO and President	U.S.	\$7,749.00	\$7,629.00	2%	\$9,573.00	81%
13	13	Huntington Ingalls Industries ¹	Mike Petters, President and CEO	U.S.	\$7,030.00	\$6,778.21	4%	\$7,400.00	95%
14	14	United Aircraft Corp. ⁷	Yury Slyusar, President, Chairman of the Management Board	Russia	\$6,197.25	\$5,636.84	10%	\$7,746.56	80%
15	18	Leidos	Roger Krone, Chairman and CEO	U.S.	\$5,218.00	\$4,252.00	23%	\$10,170.00	51%
16	15	Rolls-Royce	Warren East, CEO	U.K.	\$4,625.73	\$4,741.15	-2%	\$28,582.91	16%
17	22	Booz Allen Hamilton	Horacio Rozanski, President and CEO	U.S.	\$4,320.00	\$4,000.00	8%	\$6,171.85	70%
18	23	Naval Group ⁸	Hervé Guillou, Chairman and CEO	France	\$4,178.33	\$3,540.90	18%	\$4,178.33	100%
19	20	Harris Corporation ⁹	Bill Brown, Chairman, President and CEO	U.S.	\$4,158.00	\$4,213.00	-1%	\$5,979.00	70%
69	66	Embraer	Paulo Cesar de Souza e Silva, CEO	Brazil	\$951.00	\$932.70	2%	5,839.30	16%
70	70	Cubic	Bradley Feldmann, Chairman, President and CEO	U.S.	\$907.27	\$875.30	4%	1,485.86	61%
71	65	Meggitt ²⁰	Tony Wood, CEO*	U.K.	\$910.97	\$943.76	-3%	2,602.78	35%
72	62	Ukroboronprom ²¹	Pavlo Bukin, Director General	Ukraine	\$873.45	\$1,075.45	-19%	1,063.82	82%
73	74	Ruag	Urs Breitmeier, CEO Ruag Group, Chairman of the Group Executive Board	Switzerland	\$873.83	\$816.19	7%	1,985.98	44%

Total Defense Revenue

\$375.46 billion

Defense-related revenues for
companies on the Top-100 list

↑ Up 2.9%

Source: Defense News 2018 Top 100

Top 10 Defense Companies

LOCKHEED MARTIN

Raytheon

BAE SYSTEMS

NORTHROP GRUMMAN

BOEING

GENERAL DYNAMICS

AIRBUS

ALMAZ-ANTEY

THALES

LEONARDO

Source: Defense News 2018 Top 100

Revenue Breakdown By Region



Source: Defense News 2018 Top 100



Source: Defense News 2018 Top 100

America sold \$55.6 billion in weapons abroad in FY18 — a 33 percent jump

By: Aaron Mehta 📅 October 9, 2018



Lt. Gen. Charles Hooper, director, Defense Security Cooperation Agency head, says FY 2018 was a strong year for foreign arms sales. (U.S. Army/Sgt. Von Marie Donato)

WASHINGTON — The U.S. inked \$55.6 billion in foreign military sales during fiscal year 2018, easily smashing past the previous year's total — and the Pentagon's point man for security cooperation expects more in the future.

"This is a 33 percent increase over last year and I'm very optimistic that this positive trajectory will continue," said Lt. Gen. Charles Hooper, the head of the Defense Security Cooperation Agency, during a speech at the AUSA conference. "Our partners know a good thing when they see one."

Included in that total are \$3.52 billion for cases funded by the State Department's Foreign

Commentary

A stronger defense-industrial base starts with Congress

By: Gen. Hawk Carlisle (ret.)

4 days ago

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From the factory floor, Lockheed Martin employees work on the F-35 Lightning II Joint Strike Fighter production line in Fort Worth, Texas. (Defense Contract Management Agency)

South Korea launches military export agency

Jon Grevatt - IHS Jane's Defence Industry

19 November 2018

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South Korea has established a new agency to support international sales of locally produced military systems such as the KA-1 T-50 Golden Eagle advanced jet trainer aircraft. Source: Korea Aerospace Industries

South Korea's Defense Acquisition Program Administration (DAPA) launched an agency dedicated to boosting military exports on 19 November.

The new Defense Export Promotion Center (DExPro) is intended to help local industry engage with international opportunities in line with DAPA's increasing emphasis on facilitating industrial collaboration with foreign companies.

DAPA said DExPro will be supported by several government agencies - including DAPA, the Ministry of National Defense (MND), the Korea Trade-Investment Promotion Agency (KOTRA), and the Ministry of Trade, Industry, and Energy (MOTIE) - that will provide export support for local companies and particularly small- and medium-sized enterprises (SMEs).

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Australia lines up credit facility to support defence exports

Jon Grevatt - Jane's Defence Weekly

17 December 2018

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The Australian government has confirmed that it will provide state credit to support the potential export of two 58 m Cape-class patrol boats (seen here in operation with the Australian Border Force) to Trinidad and Tobago. Source: Austal Limited

The Australian government announced on 17 December that it will provide state credit to support two local companies' efforts to export radars systems and patrol boats.

The government indicated that it is the first time that the export credit system - officially termed the 'Defence Export Facility' - has been utilised after being established earlier this year.

"A major milestone has been reached on Australia's journey to become a top 10 global defence exporter," said a government statement referring to a target announced in January 2018. "This support for the Australian defence industry will help create and support Australian jobs."

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Australian company Quickstep awarded more work in global F-35 programme

Gabriel Dominguez, London - Jane's Defence Weekly

30 October 2019

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Australian company Quickstep has picked up more work in the global programme for the F-35 Lightning II Joint Strike Fighter (JSF) aircraft, Minister for Defence Industry Melissa Price announced on 30 October.

The Sydney-based firm was awarded a contract for the production of 10 new composite parts in support of JSF programme in a move that comes just weeks after the company opened an expansion of its Bankstown facility.

"This work on the centre fuselage is in addition to the 35 unique components Quickstep already supply into the global F-35 JSF programme, and is expected to add an additional AUD3-4 million in annual revenue at full rate production," said Price, pointing out that there is currently USD250,000 worth of Australian Quickstep equipment on every F-35 JSF globally.

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India announces new process for defence foreign investment

Jon Grevatt - IHS Jane's Defence Industry

03 July 2017



The Indian government has introduced a new procedure for foreign direct investment (FDI) proposals in sectors including defence.

The Standard Operating Procedure (SOP) was issued by the government's Department of Industrial Policy & Promotion (DIPP) on 29 June and applies to all FDI proposals that require government approval. The new process replaces those previously framed by the Foreign Investment Promotion Board (FIPB), which has been discontinued.

In defence, FDI proposals that require government approval feature those that exceed 49% of equity in a local entity. According to FDI rules, such proposals are also required to result in the transfers of "modern technology" to Indian industry.

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Indian Navy receives locally developed submarine sonar suite, inertial navigation system

Gabriel Dominguez, London - IHS Jane's Defence Weekly

28 March 2017

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Indian defence minister Arun Jaitley handed over three indigenously developed systems to the Indian Navy (IN) on 24 March, India's Press Information Bureau (PIB) said.


Developed by India's Defence Research and Development Organisation (DRDO), the naval systems presented to IN Chief of Staff Admiral Sunil Lanba include the USHUS-II integrated submarine sonar suite, directing gear for shipborne sonar arrays, and a ring laser gyroscope (RLG)-based shipborne inertial navigation system.


According to the PIB the USHUS-II is a "highly evolved compendium of multiple sensors". The constituent sonars in the suite include a passive sonar, active sonar, intercept sonar, obstacle avoidance sonar, and underwater telephony.

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What does 'Buy American' mean for industrial partnerships?

By: [Aaron Mehta](#), April 19, 2017 *(Photo Credit: Laura Buckman/AFP via Getty Images)*

WASHINGTON — Ever since U.S. President Donald Trump's election win in November, international governments and industry have tried to sort out what his "America First" policies would mean for the global partnerships that define the defense industry in 2017.

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The US Navy wants Congress to slow its roll on 'Buy American'

📅 5 hours ago



A rendering of the Bath Iron Works/Navantia FFG(X) design. (Courtesy of General Dynamics Electric Boat)

WASHINGTON – The U.S. Navy wants Congress to go easy on “[buy American](#)” provisions and balance the need to get new capabilities out quickly and affordably with its desire to push business to domestic industry.

The service opposes a provision passed by the House in the 2020 defense appropriations bill that would prohibit the use of funds for the next-generation frigate if the service tries to contract for any auxiliary equipment, such as pumps, propulsion equipment or shipboard cranes not manufactured in the United States.

French government, bank to jointly set aside \$55M to back small firms

By: [Pierre Tran](#), May 3, 2017 (Photo Credit: Philippe Lopez/AFP via Getty Images)

PARIS — France's arms procurement office and the state-backed bank Bpifrance announced that on May 2 they signed an agreement to set up this year a €50 million (U.S. \$55 million) fund to invest in small firms seen to be of strategic defense importance.

"On May 2, Laurent Collet-Billon, head of the Direction Générale de l'Armement, and Nicolas Dufourcq, CEO of Bpifrance, signed an agreement which aims to create in 2017 a defense investment vehicle, initially with €50 million of funds," the DGA and Bpifrance said in a joint statement.

A key aim is to protect small French firms from a takeover by U.S. and Chinese companies seeking to acquire their sensitive know-how, according to a Nov. 23 report in business daily Les Echos.

The investment fund will inject equity or near-equity finance to boost the balance sheets of mainly small and medium companies, as well as startups owning products or technology deemed to be of strategic importance, the joint statement said.

Those firms might also be working on equipment aimed at export markets and boosting the competitiveness of French arms in foreign markets, the statement said. The companies would have sales in the tens of millions of euros. The fund could also help the companies as their financial needs evolve.

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Experts clash over India-US relations under Trump

by Vivek Raghuvanshi

Experts disagree over the state of India-U.S. defensive and strategic ties under the Trump administr...



Taking sides: Italian defense industry rep attacks Franco-German fighter deal

By: Tom Kington 2 days ago

 726





 31



Italian firm Leonardo owns facilities in the U.K. and would spearhead Italy's work on the Tempest jet should it partner with the U.K. (Tolga Akmen/AFP via Getty Images)

ROME — Plans by France and Germany to team up on a next-generation fighter are an affront to Italy and will weaken the European Union, according to the head of an Italian defense industry association.

In a strong attack on the Future Air Combat System, or FCAS, deal, Guido Crosetto told Defense News that Italy would seek closer ties with the U.K. as a consequence, despite the U.K.'s pending exit from the EU.

"The fighter deal between Germany and France leaves all others on the margins. And since the only other country with equal industrial capabilities is Italy, the deal is clearly against Italy," he said.

"Have France and Germany tried to get the Italy involved? It doesn't look that way," he



After signing to pursue a joint fighter last year, France and Germany this month awarded home players Airbus and Dassault a first contract for a concept study worth €65 million (U.S. \$73 million), while Safran Aircraft Engines and MTU Aero Engines announced a partnership to supply propulsion.

The FCAS program covers both manned and unmanned aircraft, which are due in service from 2040 to replace French Rafale fighters and Eurofighters currently flown by Germany.

Showing that Paris and Berlin do want additional partners, Spain signed up Feb. 14, stating it would become an equal partner on the program.

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But in the belief that Germany and France will call the shots, Crosetto said Italy would do well to sign up with the U.K. to work on the British future fighter known as Tempest.

"A tilted partner has the right to look around for other partners, and the U.K. has asked us to join Tempest," he said.



Italy's junior defense minister, Angelo Tofalo, said in December that the country "needed to enter the program immediately."

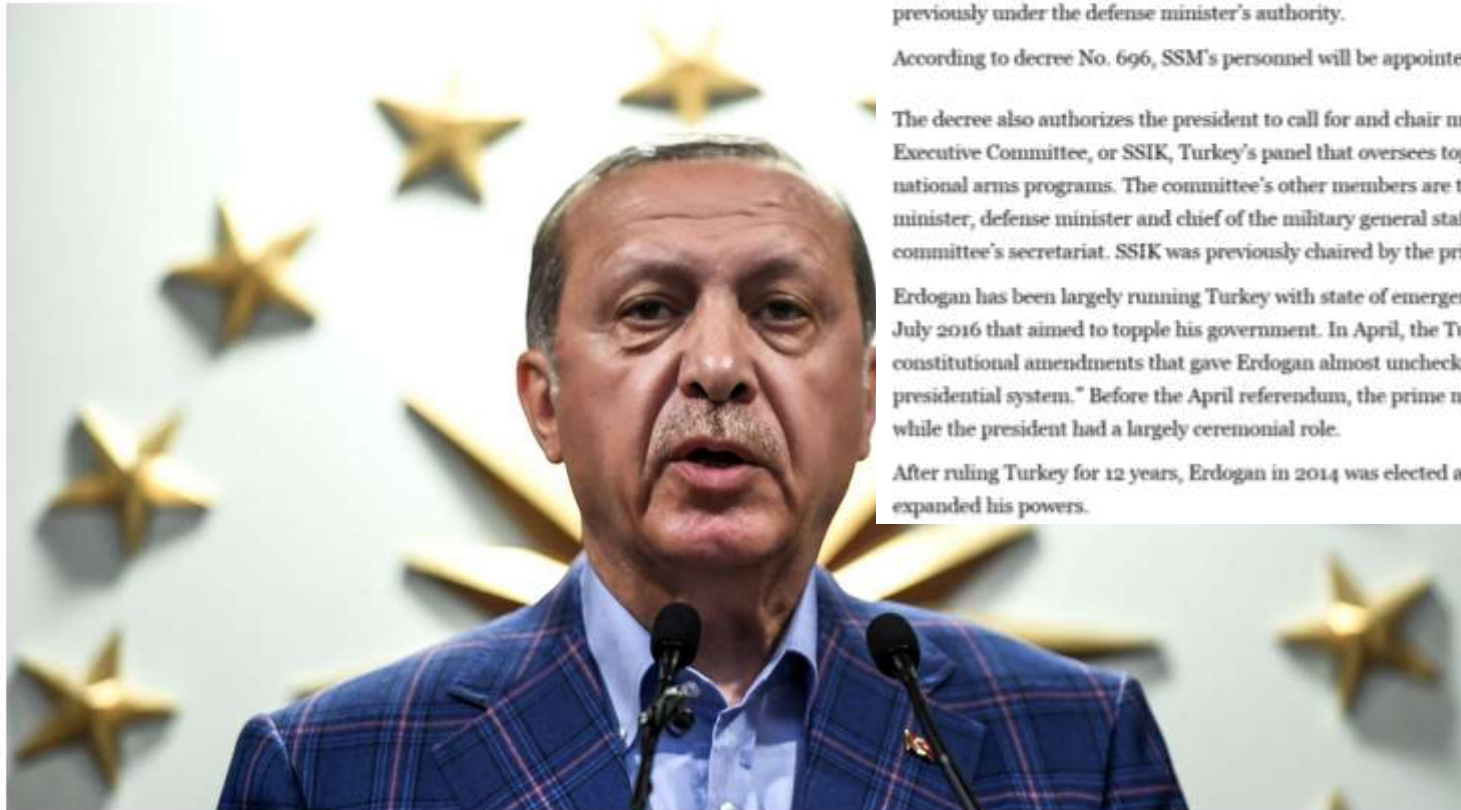


Italian government praise for F-35 shows early doubts waning
One key official offers high praise for the aircraft, following earlier indications that the populist government had soured on the procurement plan.
By: Tom Kington

Crosetto said he was not alarmed by the potential difficulty of doing business with the U.K. if and when it leaves the European customs union, which is due to happen this year. The split will be a headache for Italy's defense champion Leonardo, which owns facilities

Turkey's Erdogan decrees sweeping defense procurement takeover

By: **Burak Ege Bekdil** 18 hours ago



ANKARA, Turkey — Turkey's Islamist president, Recep Tayyip Erdogan, has passed new laws granting him full authority over defense procurement and control over Turkey's top defense companies.

The Dec. 24 decree of a state of emergency forces the country's procurement agency, the Undersecretariat for Defense Industries, or SSM, to directly report to Erdogan. SSM was previously under the defense minister's authority.

According to decree No. 696, SSM's personnel will be appointed with the president's approval.

The decree also authorizes the president to call for and chair meetings of the Defence Industry Executive Committee, or SSIK, Turkey's panel that oversees top procurement decisions and national arms programs. The committee's other members are the prime minister, interior minister, defense minister and chief of the military general staff. SSM will operate the committee's secretariat. SSIK was previously chaired by the prime minister.

Erdogan has been largely running Turkey with state of emergency decrees after a failed coup in July 2016 that aimed to topple his government. In April, the Turks narrowly voted to pass constitutional amendments that gave Erdogan almost unchecked powers in a new "executive presidential system." Before the April referendum, the prime minister had the executive powers, while the president had a largely ceremonial role.

After ruling Turkey for 12 years, Erdogan in 2014 was elected as Turkey's president and has since expanded his powers.

After ruling Turkey for 12 years, Recep Tayyip Erdogan in 2014 was elected as Turkey's president and has since expanded his powers. (Bulent



French lawmaker decries dependence on Russian, other foreign capabilities

By: [Pierre Tran](#), March 30, 2017 (Photo Credit: Miguel Medina/AFP via Getty Images)

PARIS — France suffers from a dependence on Russian and Ukrainian airlifters for the strategic transport of military cargoes, and it also relies fully on U.S. air tankers for refueling Rafale fighter jets, asserted François Cornut-Gentille, a member of Parliament.

The Finance, General Economy and Budgetary Control Committee of Parliament's lower house, the National Assembly, adopted on March 28 the MP's report on French strategic air transport, in which risks of external reliance were made clear.

France "depends totally" on U.S. air tankers to refuel Rafales, Cornut-Gentille told journalists after the committee meeting. "That means our room for maneuver could be reduced in certain circumstances," he said.

"We have no idea what the Americans might decide in two years or three months," he said. "No idea at all."

"It is not a total dependence," Army Col. Patrik Steiger, spokesman for the French joint chiefs of staff, said March 30. "It is cooperation among allies. We are allies with the Americans, we are engaged in the Sahel region, Levant, and there is the principle of a 'mutualization' of available assets."



IAI emerges as lowest bidder for Indian Army's radar program

by Vivek Raghuvanshi

However, a senior MoD official says the ministry will continue to pursue an even cheaper option

Europe

A jet sale to Egypt is being blocked by a US regulation, and France is over it

By: Pierre Tran 23 hours ago



A French Rafale fighter jet performs during the Dubai Airshow on Nov. 12, 2017, in the United Arab Emirates. (Karim Sahib/AFP via Getty Images)

PARIS — France is seeking to reduce its reliance on U.S. approval for French arms exports as Washington withholds [clearance for an American component](#) on the French Scalp cruise

France could replace US parts in SCALP missile to circumvent ITAR restrictions for Egypt, but at some delay

Gareth Jennings, London - IHS Jane's Defence Weekly

02 August 2018

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The SCALP land-attack cruise missile seen in a non-operational orange colour scheme as part of a wider Rafale weapons package. US parts in the missile have triggered ITAR restrictions on it being sold to Egypt. Source: IHS Markit/Patrick Allen

Egypt could still receive MBDA SCALP cruise missiles from France, if it is willing to accept a delay while US-manufactured components are replaced with French ones.

Answering questions on weapons exports in the country's National Assembly, French Defence Minister Florence Parly said that the decision by the United States to use the International Trade in Arms Regulation (ITAR) agreement to block the sale of the air-launched land-attack cruise missile to Egypt could be circumvented if domestically-built parts are used instead, but that this would take time.

"In this case, we will not be able to lift the US opposition to the sale of SCALP missiles [to Egypt]. The only thing we can do is for MBDA to make some investment in research and development to be able to manufacture similar components that are not covered

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US lawmaker wants to block F-35 sales to Turkey over embassy brawl

By: [Joe Gould](#) and [Valerie Insinna](#), July 7, 2017 (Photo Credit: US Air Force)

WASHINGTON — A Democratic lawmaker from Rhode Island is seeking to block the U.S. sale of Lockheed Martin-made F-35 fighter jets to Turkey over an attack on protesters outside the Turkish ambassador's residence in Washington two months ago.

Rep. David Cicilline, a member of the Foreign Affairs Committee, has proposed the ban as [an amendment](#) to the 2018 National Defense Authorization Act, which was passed by the House Armed Services Committee last month. The House is expected to take up the bill and deal with amendments next week.

The House Rules Committee had reported more than 90 proposed amendments on various topics as of Friday morning. The panel plans to vote on whether to allow floor consideration of the individual amendments Wednesday.

Any approved amendments would then need House approval to join the bill, which would have to be reconciled with the Senate version after it passes the House.

The amendment highlights the complicated U.S. relationship with Turkey, a key NATO ally and home to Incirlik Air Base. President Recep Tayyip Erdogan has criticized Washington over its support for Kurdish groups fighting the Islamic State that Ankara considers terrorist organizations. The Trump administration has walked a tightrope, generally praising Turkey, despite widespread criticism Turkey has become more

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Mulaney opens door to bigger DoD budgets

by Joe Gould

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Industry

UK halts exports to Turkey

Ben Vogel, London - Jane's Defence Weekly

15 October 2019

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The UK government announced on 15 October that it is suspending arms exports to Turkey, following the invasion of Kurdish-held areas of northern Syria.

Addressing the House of Commons, Foreign Secretary Dominic Raab announced a "very careful and continual" review of exports to Turkey. He added that "no further export licences to Turkey for items which might be used in military operations in Syria will be granted while we conduct that review".

However, exports can continue under licences that have already been approved. The 20th EU Annual Report on Arms Exports, published in December 2018, stated that the United Kingdom approved licences worth EUR659.74 million (USD 727.49 million) in 2017 for arms and ammunition exports to Turkey.

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The Americas

Diplomatic row jeopardizes \$1.5B helicopter deal between Turkey and Pakistan

By: [Burak Ege Bekdil](#) 1 day ago

A Turkish T129 helicopter is on display during the Farnborough International Airshow in England. Airman Micaiah Anthony/U.S. Air Force)

ANKARA, Turkey — An escalating diplomatic crisis between NATO ally Turkey and the United States may risk suspending a **\$1.5 billion deal** between Turkey and Pakistan for the sale of 30 Turkish-made T129 ATAK helicopter gunships.

Air Land Naval Space Cyber C4ISR Pentagon Congress Global TV/Video Thought Lea

ANKARA, Turkey — An escalating diplomatic crisis between NATO ally Turkey and the United States may risk suspending a \$1.5 billion deal between Turkey and Pakistan for the sale of 30 Turkish-made T129 ATAK helicopter gunships.

The T129 is being produced by Turkish Aerospace Industries under license from the Italian-British company AgustaWestland.

"The problem is related with the U.S.-made parts for which TAI will need U.S. export licenses in order to materialize the deal," a Turkish aerospace official said.

The T129, based on its predecessor A129 Mangusta, is a twin-engine multirole attack helicopter. The T129 is powered by two LHTEC T800-4A turboshaft engines. Each engine can produce 1,014 kilowatts of output power. The T800-4A is an export version of the CTS800 engine. LHTEC is a joint venture between the American firm Honeywell and the British company Rolls-Royce.

"Apparently we shall need U.S. export licenses to go ahead with the T129 deal," a senior procurement official said. "This is not a technological or financial matter but is purely political at the moment."





Swedish bill could slow weapons sales to nondemocratic countries

By: Gerard O'Dwyer, July 14, 2017 (Photo Credit: Bertil Ericson/AFP via Getty Images)

HELSINKI — Sweden's Social Democratic government has received general support from opposition parties for a new legislative plan to curb weapons sales to so-called autocratic and nondemocratic nations.

The proposed legislation would have a direct impact on weapons sales to certain countries in the Middle East, Africa and Latin America. The law would be applicable under the new human rights criteria.

The proposed legislation will amend the current law on arms exports. A strong degree of opposition party support is expected. The law could be introduced as early as next year.

Countries that will be affected by the new law include Russia, China and the United Arab Emirates, all major arms industry companies.

Saab Group's CEO, Håkan Buskhe, warned government and opposition leaders that an "overly intrusive" arms control law could increase the company's domestic production costs, restrict the geographic scope for exports and might force it to relocate parts of its research and development operations abroad.

Prime Minister Stefan Löfven's administration has been under considerable pressure from opposition party leaders to tighten weapons sales and exports.

Opposition parties, led by the Centre, Moderate, Liberals and Green parties, had demanded weapons sales be further restricted to "dictatorship" states and countries where human rights are perceived to be under threat.

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competitions

by Valerie Insinna

As Gulfstream waits to see whether its G550 will emerge victorious and become the Air Force's new



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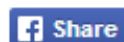
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Industry

Germany extends Saudi defence export ban

Andrew MacDonald, London - Jane's Defence Industry

08 March 2019



Germany is to continue its total embargo on military exports to Saudi Arabia until at least the end of March, according to comments made by the country's foreign minister Heiko Maas on 7 March.

The move comes despite significant pressure from Germany's European allies including France and the UK, both of whom rely on German technology used in joint European defence platforms such as the Eurofighter Typhoon.

On 21 February British Foreign Secretary Jeremy Hunt formally requested that Germany change its policy of denying companies licences to export to Saudi Arabia, which, although temporary, has been in place since October 2018.

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Argentina procures T-6C+ Texan II turboprop trainer and light-attack aircraft

Gareth Jennings, London - IHS Jane's Defence Weekly

26 April 2017



Argentina has procured four Beechcraft T-6C+ Texan II turboprop trainer and light-attack aircraft under a contract valued at USD88.2 million, it was announced on 25 April.

The contract, which was awarded by the US Department of Defense (DoD) under the Foreign Military Sales (FMS) scheme, will see the aircraft delivered to the Argentine Air Force (Fuerza Aérea Argentina: FAA) by 30 April 2018. Included in the deal are maintenance and pilot training, as well as interim contractor support for maintenance.

The contract follows US State Department approval for the sale of up to 24 T-6C+ aircraft that was announced in August 2016. At that time, it was said the estimated USD300 million procurement deal was needed to replace the FAA's Embraer EMB-312 Tucanos, only a handful of which are still in an airworthy condition.

According to the US Defense Security Cooperation Agency (DSCA), the proposed sale would "revitalise Argentina's capability to train its pilots and fulfill border control missions, especially along its porous northern border. The Argentine Air Force will use the enhanced capability to redevelop a professional pilot corps and as a deterrent to illicit activity."

According to *Jane's All the World's Aircraft: Development and Production*, the T-6 has a top speed of 270 kt, an endurance of three hours at maximum cruise speed, a range of 1,574 km, and a service ceiling of 35,000 ft.

The T-6C features an integrated 'glass' cockpit and advanced avionics, including head-up display, up-front control panel, three-colour multifunction displays, and HOTAS (hands on throttle and stick) controls. It differs from the standard T-6B in having wings that are plumbed for the carriage of auxiliary fuel tanks. The enhanced T-6C+ variant procured by Argentina (and previously Mexico) is also capable of carrying up to a payload of 1,415 kg of external stores.

Related IHS Products

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Bolivia eyes Argentine IA-63 Pampa III light strike jets

Jose Higuera - IHS Jane's Defence Weekly

21 September 2017



The Bolivian government is considering buying light strike aircraft, riverine vessels, and more from Argentina, military sources in Buenos Aires told *Jane's*.

Bolivia's main interest is buying between 8 and 12 IA-63 Pampa III light strike aircraft, to be built at Argentina's Fábrica Argentina de Aviones SA (FAdeA) factory in Cordoba, the sources said.

The aircraft are to replace recently retired ageing Lockheed/Canadair T-33s, which were heavily used to intercept drug trafficking flights.

According to sources, Bolivia was not satisfied with Chinese HAI K-8W K-8 Karakorum trainer aircraft for intercept missions.

Bolivian-Argentine talks started in July 2017 under a memorandum of understanding signed by both countries in September 2015, and have developed with participation of Bolivian officers and Bolivia's ambassador in Buenos Aires, Normando Alvarez.

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France receives first C-130J Hercules

Victor Barreira - Jane's Defence Weekly

28 December 2017



The French Air Force (Armée de l'Air: AdlA) has received the first of four Lockheed Martin C/KC-130J Hercules transport/tanker aircraft at Orléans-Bricy in late December.



The first Lockheed Martin C-130J Hercules for the French Air Force (Armée de l'Air)

Transport Squadron 2/61 'Franche-Comté' based at Air Base 123 Orléans-Bricy received the first C-130J-30 on 22 December. The official delivery ceremony will take place in January 2018.

Transport Squadron 2/61 'Franche-Comté' based at Air Base 123 Orléans-Bricy received the first C-130J-30 on 22 December. The official delivery ceremony will take place in January 2018.

Two C-130J-30 stretched airlifters and two KC-130J tankers were purchased through a US Foreign Military Sale (FMS) contract of 29 January 2016, that also included training, spares, support systems, and two-years initial maintenance.

The first C-130J-30 will be joined by an identical aircraft in 2018, with the two KC-130Js arriving in 2019.

Bundeswehr sees new French C-130J as first step towards Franco-German air transport squadron

Nicholas Fiorenza, London - Jane's Defence Weekly

17 January 2018



Senior German generals have described the Armée de l'Air's (French Air Force's: AdlA's) new C-130J as the first step towards the establishment of a joint air transport squadron by Germany and France.

Lieutenant General Erhard Bühler, who heads the planning team for the joint squadron in the German Ministry of Defence (MoD), was quoted on the ministry's website as saying: "The first aircraft, even if it carries French insignia, is the starting shot. Only together can we accomplish the coming tasks of Europe. France and Germany, shoulder to shoulder, that is our future."

The Inspekteur der Luftwaffe, the chief of the German Air Force, Lieutenant General Karl Müllner, expressed satisfaction that "the first step towards building up a new joint unit is being made", adding: "The C-130J will fill a gap which will emerge with the retirement of the aging Transall."

Germany and France are setting up a joint air transport squadron consisting of four French and six German C-130Js based at the French airbase in Évreux, Normandy, with an initial operational capability in 2021 and full operational capability in 2024.

The first C-130J-30 transport version was delivered to France in late December 2017 and handed over to the AdlA's Escadron de Transport (Transport Squadron) 2/61 'Franche-Comté' at Air Base 123 Orléans-Bricey on 15 January. One more C-130J-30 and two KC-130J aerial refuelling aircraft will be delivered by the end of 2019.

C-130J deliveries to Germany are planned starting in 2021, when the C-160 Transall is phased out. Three of the German aircraft will be KC-130J tankers.

A joint Franco-German training centre will be built at Évreux to train aircrews and maintenance personnel starting in 2021.

The first C-130J inducted by the French Air Force on 15 January has been described by senior German generals who attended the ceremony as the first step towards the joint Franco-German air transport squadron. Source: German MoD

Belgium Spending €275 Million On F-35 Infrastructure

Tony Osborne | Aerospace Daily & Defense Report

Jul 8, 2019



EMAIL



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COMMENTS



Belgium has begun tendering for new infrastructure worth up to €275 million (\$308 million) to support its new F-35 Joint Strike Fighter fleet.

Because Brussels wants to base its 34 F-35As across two air bases, Florennes

and Kleine Brogel, two sets of facilities will be required. This will include facilities for operational planning, mission preparation and training infrastructure, each with four flight simulators and hangarage for maintenance facilities for six aircraft. The costs also cover the building of new flight lines and 16 covered aircraft shelters. Also stemming from these funds is a so-called quick reaction alert facility to support the national air policing

mission operating on a 24 hr.-a-day, 365-day-a-year basis.

The tender issued on July 3 is separate from the wider F-35 Foreign Military Sale which Brussels agreed to last October. The documents also provide insight into the security requirements demanded by the U.S. Department of Defense for nations operating the fifth-generation aircraft, calling for the new facilities to be enclosed and equipped with intrusion detection and alarms. Belgian ministers have already approved plans to recruit additional personnel to guard the aircraft. On several occasions, protesters have broken into the Kleine Brogel base over the housing of U.S. dual-key nuclear weapons there.

The new F-35 facilities must be approved and certified to U.S. government standards, the

**Defense market data
& intelligence to locate
new business**

LET'S TALK

**AVIATION
WEEK
NETWORK**

DoD

Could an air conditioner take down a military base? The Pentagon is worried

By: **Aaron Mehta** 16 hours ago



The Pentagon is worried about the potential for cyberattacks to shut down critical infrastructure at a time of war. (Joshua James Wahl/US Navy)

Robotics

Beetle-like Iranian robots can roll under tanks

By: **Kelsey D. Atherton** 2 days ago

f 132

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+ 33



photo : Hossein Zohrevand

The small machines bristle with antennas and sometimes weapons. Video demonstration shows that the little robots can be fitted with sensor masts, too. (Hossein Zohrevan / Islamic Republic of Iran Army Ground Forces)

On screen, the small robot slides perfectly underneath the textureless tank. It is a modern iteration of an old promise in remote warfare, rendered with all the processing power of a desktop PC from 1994. Can a small, cheap robot prove useful against the vehicles of an

[Home](#)

Pentagon Asks for More Money To Counter ISIS Drones

By: Jen Judson
  July 8, 2016



OLD BETHPAGE, NY -AUGUST 30: A drone is flown for recreational purposes in the sky above Old Bethpage, New York on August 30, 2015. (Photo by Bruce Bennett/Getty Images)

WASHINGTON — The Defense Department has asked Congress for an additional \$20 million to deal with the Islamic State group's drone threat.

Some of those enemy-owned drones carry improvised explosive devices (IED) while others are being used for reconnaissance, according to Joint Improvised-Threat Defeat Organization (JIDO) spokesman David Small.

And more money is needed in order to find and buy solutions to detect and defeat enemy drones on top of \$189.7 million already allotted for attacking the networks of terrorist organizations in fiscal 2015 Overseas Contingency Operations funding, according to an omnibus reprogramming request sent to Congress last week. The money would be funneled



C4ISRNET

Marine Corps counter-drone experiment ends this year

By: **Joe Gould**  May 7

 283 32

Pierre-Olivier Nougès, left, and Bill Watson, right, take a look at the Light Marine Air Defense Integrated System, or LMADIS mounted on a MRZR all-terrain vehicle on the exhibit floor during the Sea Air Space Exposition at the Galyford National Convention Center in National Harbor, Md. on May 7, 2019. (Alan Lessig/Staff)

Who will be able to fix a satellite for the Air Force in 2025?

By: **Nathan Strout** 📅 2 days ago



The service's Space and Missile Systems Center issued a request for information Oct. 25 asking industry what innovative solutions they will be able to bring to bear on a number of topics, including hosted payloads. The Commercially Hosted Infrared Payload, a heat-detecting sensor installed on the SES-2 communications satellite, demonstrated that commercial satellites can host military or intelligence sensor payloads without interference.

2018 Top 100 Companies

Fair competition? Not if you look global

By: Jill Aitoro 4 hours ago



The Italian FREMM Alpiro moored pierside in Baltimore. (David B. Larter/Staff)

It's no secret — in the U.S., domestic [defense companies](#) have an advantage.

There are practical reasons why. Clearly, there's a need to maintain a healthy industrial base. Related to that, idle production lines are expensive. Nobody wants to sacrifice U.S. jobs, nor would the economy thrive without the billions that filter in from export.

And then there's lobbyists and political influences. That's a factor, too.

A+
A-

g+



B-52 deve ser operacional por 100 anos

ROBERTO GODOY - O ESTADO DE S. PAULO

20 Dezembro 2015 | 02h 04

'Fortaleza Voadora', que começou sua carreira militar em 1952, ganha estímulo da Força Aérea para se manter na ativa pelo menos até 2052





***QUAL O PAPEL DA
LOGÍSTICA NA FAB?***

***QUAL O PAPEL DA
BID?***



FORÇA AÉREA BRASILEIRA

Asas que protegem o País


RECURSOS

The diagram features a large, light gray background image of two fighter jets flying through a cloudy sky. One jet is in the foreground, angled upwards, with the number '45' visible on its tail. Another jet is in the background, also angled upwards. A large, solid blue arrow points from a box on the left to a box on the right. The box on the left contains the word 'RECURSOS' and the box on the right contains the word 'CAPACIDADES' in quotes.

“CAPACIDADES”



MISSÃO



“Obter e suportar as capacidades do combatente da Força Aérea”

QUEM CONTROLA E QUEM DEFENDE, PROTEGE !



22

MILHOES DE KM²

CONTROLE
DO ESPAÇO AÉREO

+

DEFESA
AEROSPAÇIAL

=

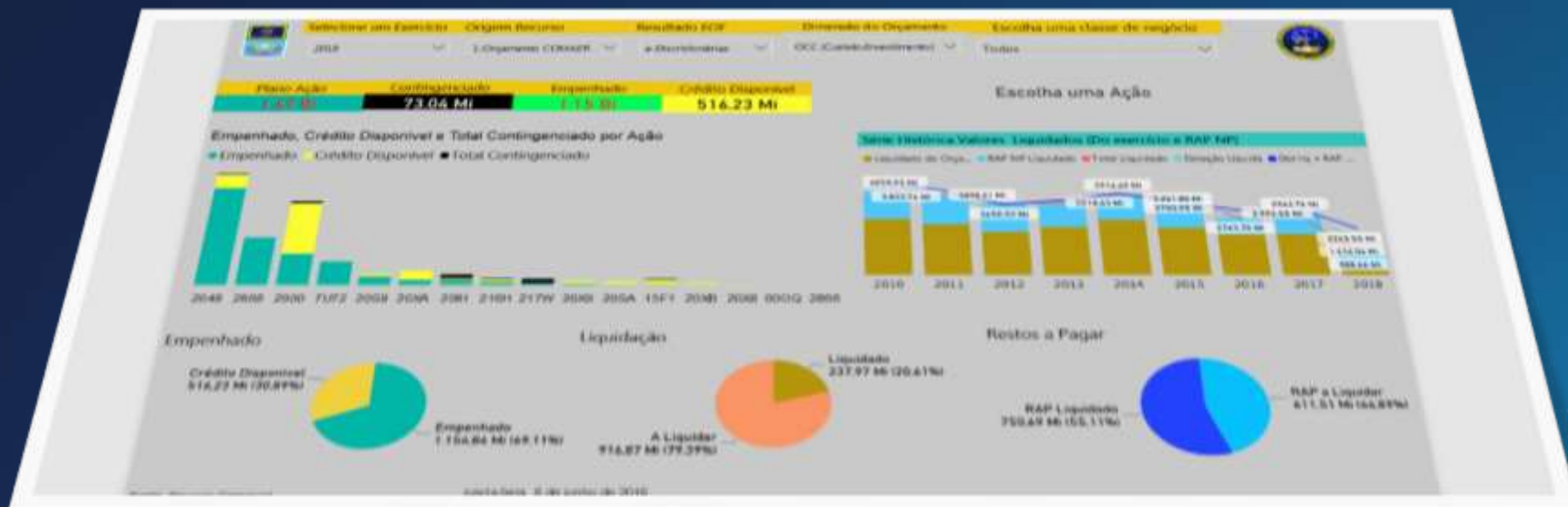
PROTEÇÃO
DO ESPAÇO AÉREO



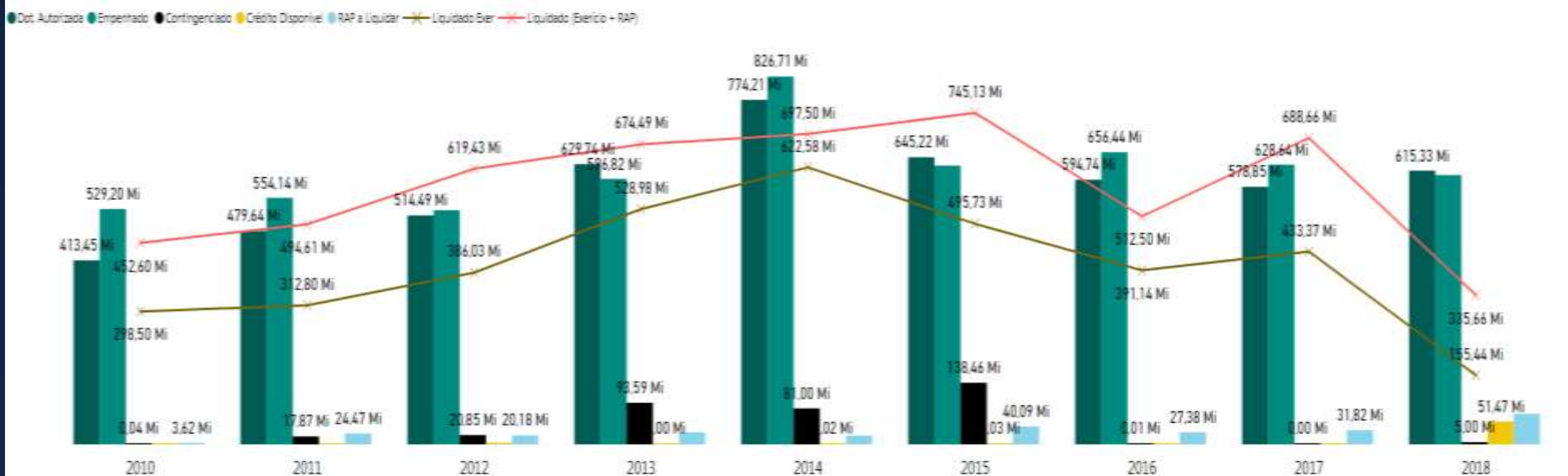
FORÇA AÉREA BRASILEIRA
Aviões que protegem o País

WWW.FAB.MIL.BR

Planejamento Orçamentário



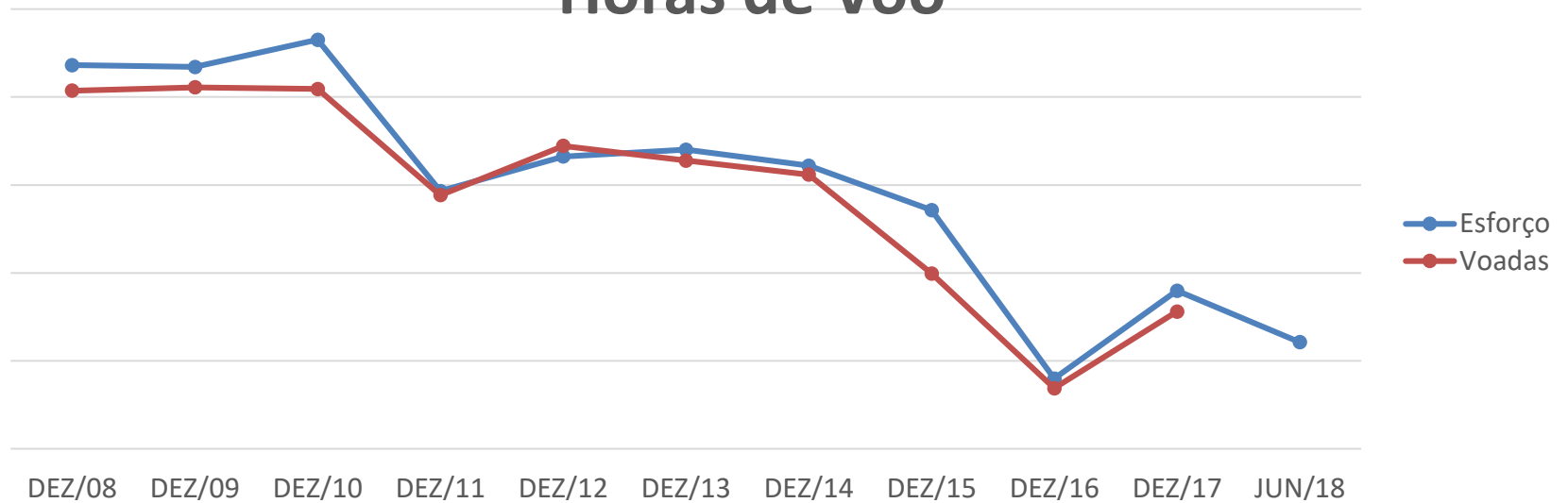
Série Histórica (Orçamento x Execução) por ano



Ano	Dot. Autorizada	Empenhado	Contingenciado	Crédito Disponível	RAP a Liquidar	Liquidado Exer.	Liquidado (Exercício + RAP)
2010	413.448.591	529.200.480	43.113	287,42	3.613.983,19	298.499.312	452.598.452,69
2011	479.636.076	554.140.590	17.867.665	71,40	24.466.745,94	312.799.049	494.610.603,23
2012	614.482.385	526.016.113	20.852.538	3.800.000,00	20.182.211,01	386.028.172	615.426.686,46
2013	629.742.550	596.819.761	93.593.117	395,62	27.112.669,61	528.979.572	674.493.488,35
2014	774.208.596	826.705.098	81.000.001	20.811,40	19.756.295,44	622.581.827	697.503.615,56
2015	645.220.644	626.586.865	138.464.400	29.309,65	40.085.358,55	485.731.411	745.131.967,78
2016	594.742.178	656.439.941	11.092	6.592,11	27.384.506,36	391.136.065	512.498.068,48
2017	578.851.223	628.636.606	1.652	852,84	31.819.692,31	433.367.363	688.698.377,47
2018	615.332.000	615.237.472	5.000.000	51.472.618,40	68.773.747,62	155.444.486	335.655.751,70

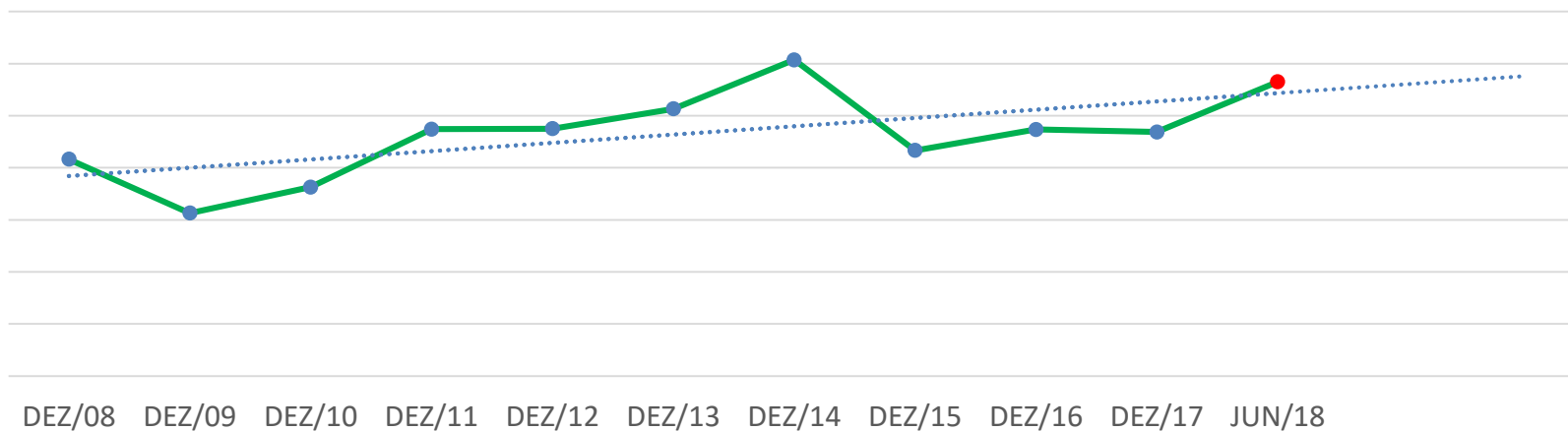
Fonte: EMAER, 2018.

Horas de Voo



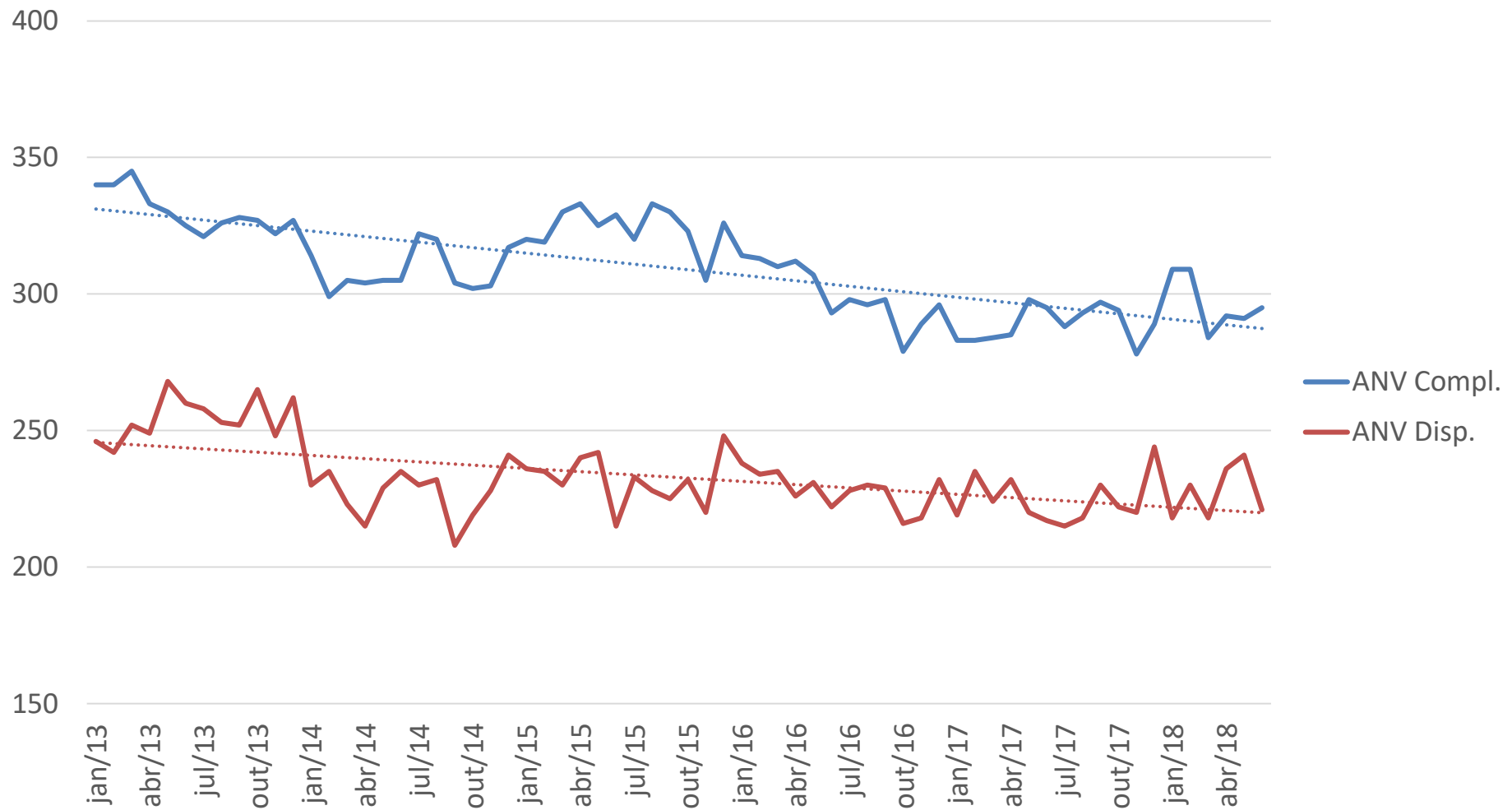
Fonte: EMAER, 2018.

AÇÃO 2048



Fonte: EMAER, 2018.

ANV completas x ANV disponíveis



Fonte: SILOMS, 2018.

SUPOSTAR O SISTEMA AEROESPACIAL....



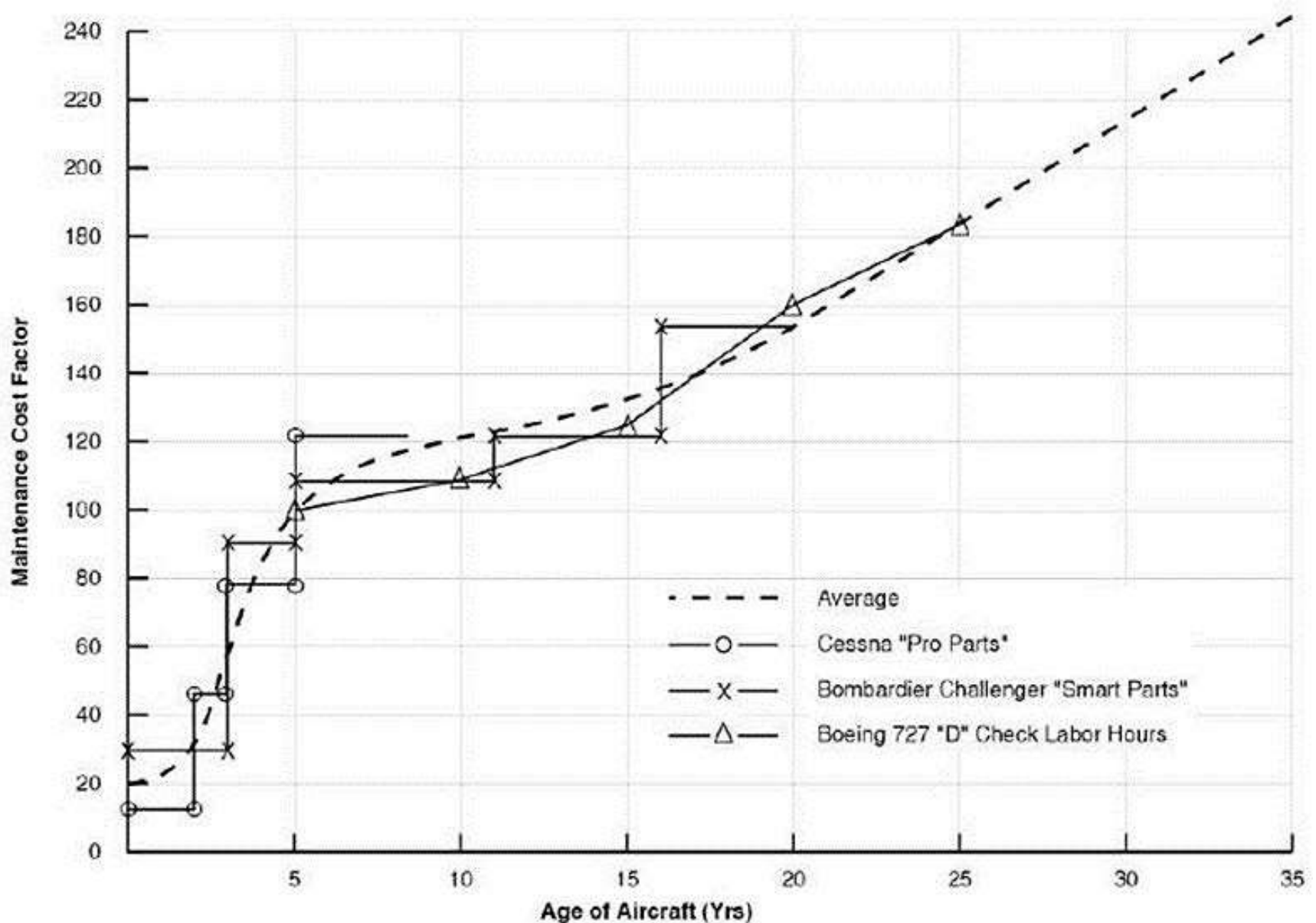
SUPOORTAR O SISTEMA AEROESPACIAL.....



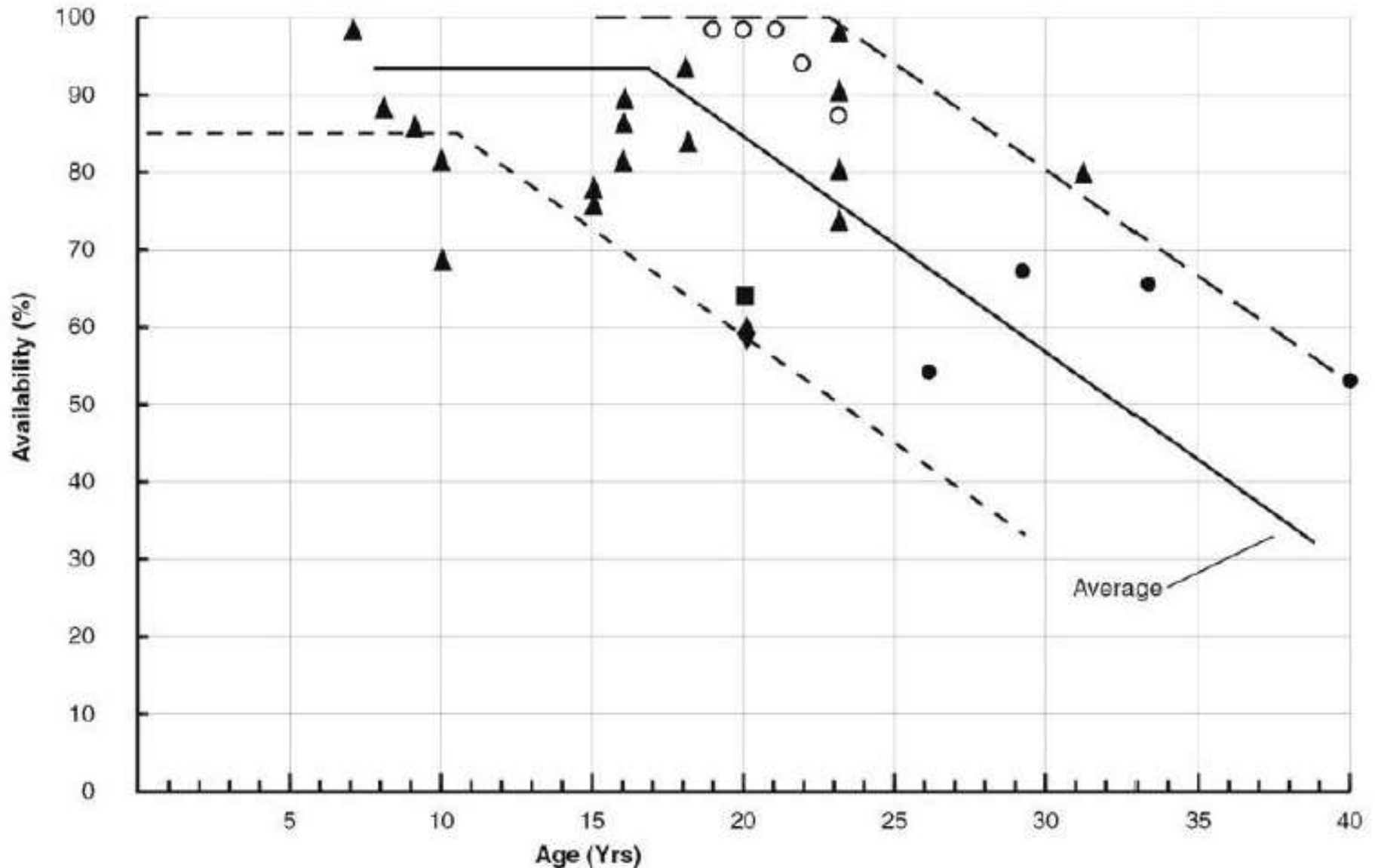
Aeronaves e Sistemas de Combate

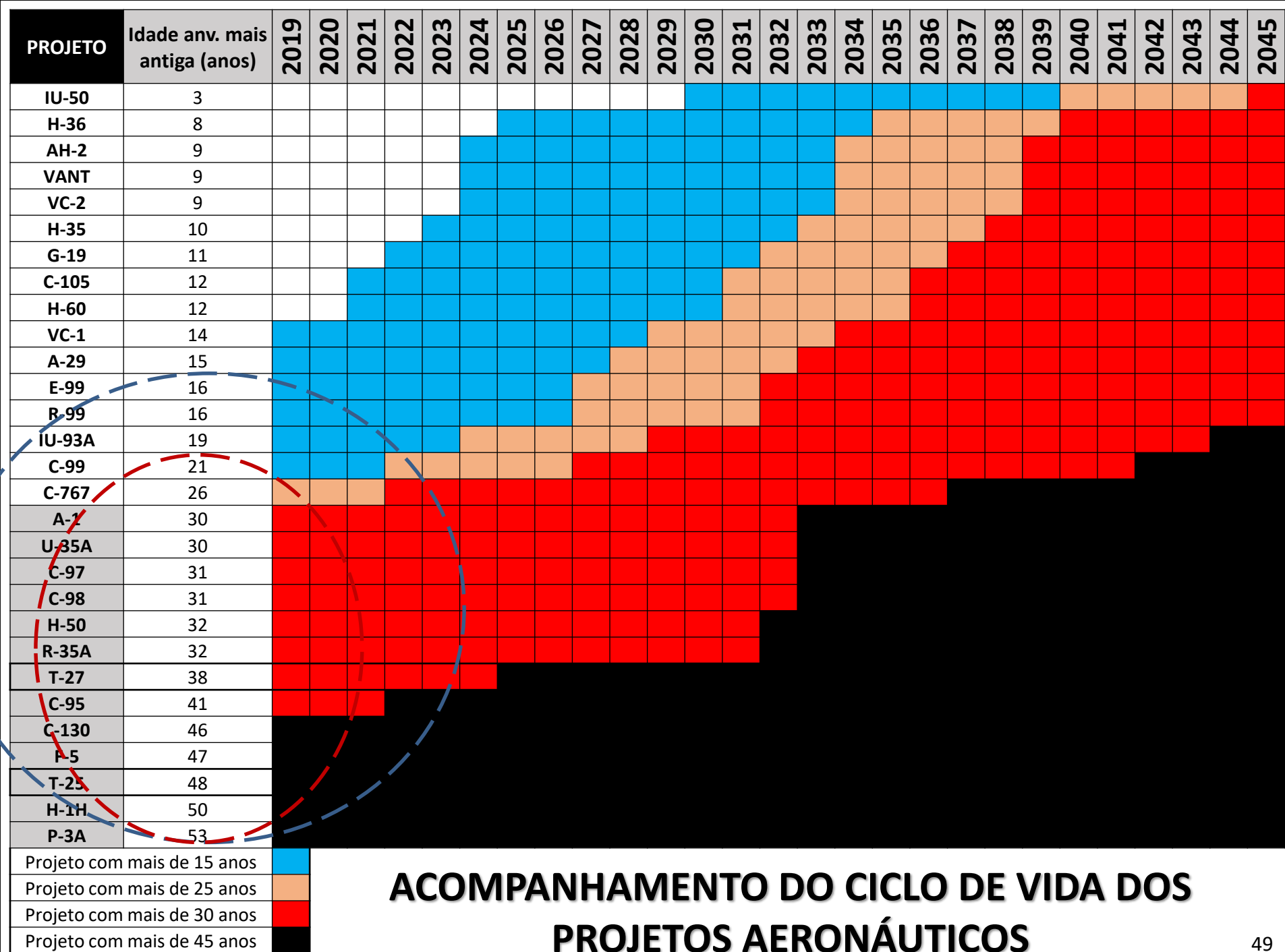


Impact of Age on Corporate Aircraft Maintenance Costs



Impact of Aircraft Age on Availability





Durante a Fase de Utilização do Sistema Aeronáutico, cabe ao COMGAP executar as ações de Controle do Desempenho Logístico (Bloco 51 – DCA 400-6/2007) e determinar Expectativa de Vida do Sistema ou Material (Bloco 53 – DCA 400-6/2007) e fazer propostas de Revitalização, Modernização, Melhoria ou Desativação (Bloco 54 – DCA 400-6/2007).

COMGAP

Missão

Obter e suportar as capacidades para o combatente da Força Aérea.





COMGAP



QUAIS AS CAPACIDADES DA FORÇA AÉREA 100 A SEREM suportadas PELO **COMGAP** ?

- Aeronaves
- Projetos conjuntos?
- Aeronaves Não-Tripuladas (Seg. Terrestre, Seg. Aéreo, Seg. Espacial?)
- Propulsão
- Armamento
- Sistemas ISR
- Sistemas de TI – Negócios (BI) (SILOMS, SIGADAER....)
- Sistemas TI embarcados -*Link* BR2, FITS, OFP, CHS, IFF
- C3I –Redes
- Infraestrutura
- Simuladores
- Sistemas de apoio à operação (RIG, veículos especiais, AGE)
- Sistemas espaciais?
- Sistemas cibernéticos?

COMGAP



Objetivos Permanentes:

- *Propiciar soluções com o maior grau de custo-benefício*
- *Produzir planos de suporte confiáveis e sustentáveis*
- *Incrementar, padronizar e centralizar os processos*
- *Desenvolver e alocar a pessoa certa no local certo*
- *Buscar a autonomia da BID*





BASE INDUSTRIAL DE DEFESA (BID)

- **1808** – 1ª Fábrica da Indústria de Defesa brasileira – Fábrica Real de Pólvora.
- **1870 a 1914** – Domínio da produção de Munições (autonomia).
- **1928 a 1950** – Domínio da produção de armamento (autonomia).
- **1952 a 1975** – Estagnação da Indústria militar brasileira pelo efeito do pós guerra (acordo militar Brasil-Estados Unidos).
- **1975** – Denúncia do Acordo Militar Brasil-Estados Unidos.





BASE INDUSTRIAL DE DEFESA (BID)

- **Década de 1980**
 1. Indústria Nacional em desenvolvimento.
 2. Necessidade de aquisições pelas FFAA (mais de 90% dos meios do EB eram fabricados no Brasil).
 3. Crise do petróleo e Guerra Irã-Iraque - Demanda do mercado do Oriente por armamento (Brasil, 8º exportador mundial).



EMBRAER



AVIBRAS



ENGESA



BASE INDUSTRIAL DE DEFESA (BID)

- **Década de 1990:**

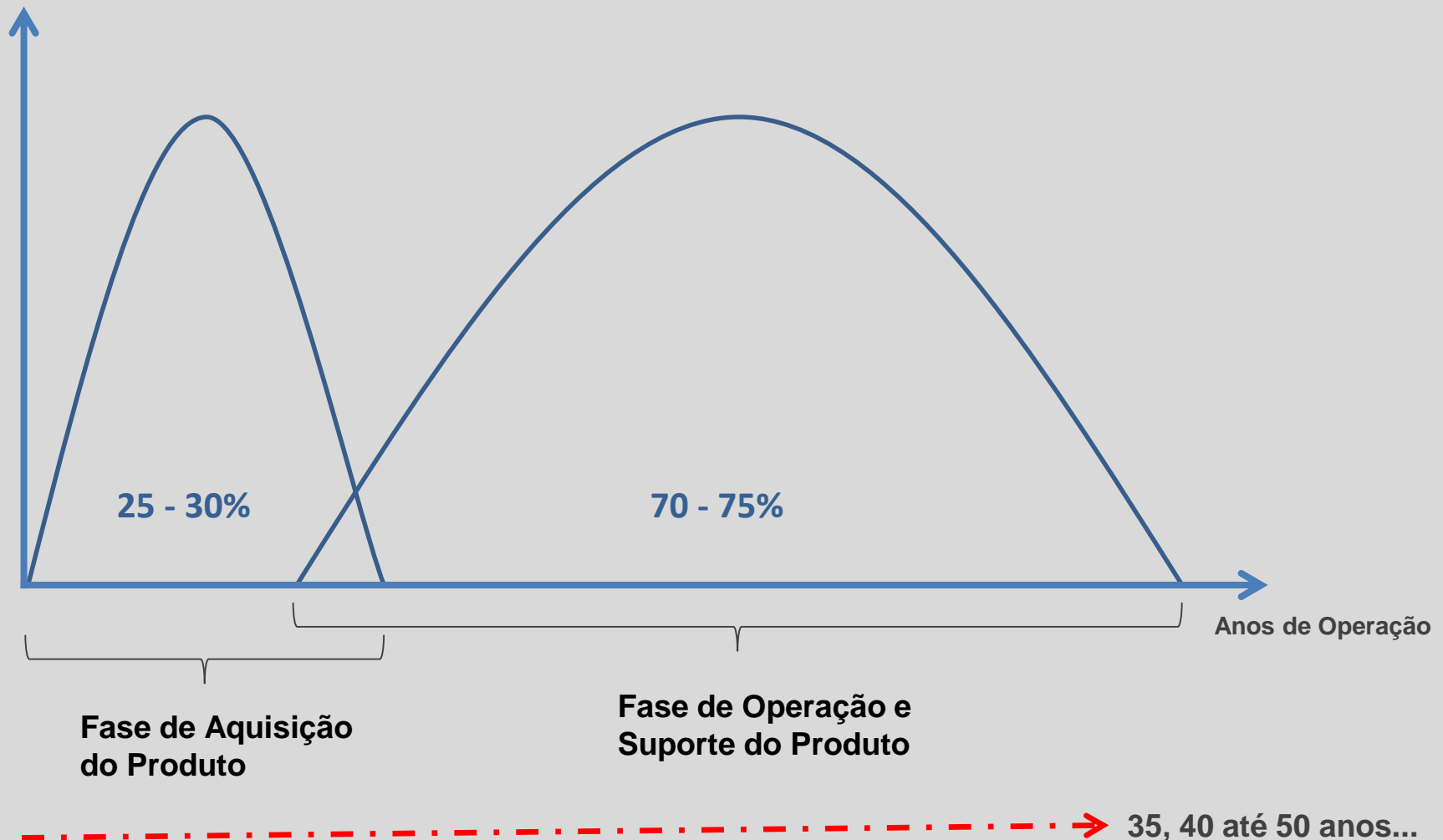
1. Decadência da BID (novo cenário mundial).
2. Queda do Muro de Berlim; derrocada da URSS; fim da Guerra Fria.
3. “Last Supper” – 1993- DoD USA + indústrias
4. Redução dos orçamentos das FFAA.
5. Quase extinção da BID.

Indústria de defesa no Brasil: Privada

- ***A BID tem a capacidade para ampliar e criar novas competências tecnológicas e de negócios, fortalecendo a estrutura industrial brasileira.***
- ***Visão Realista - Viabilidade***
 - ***Tecnologia “madura” – TRL***
 - ***Certificação – FAB/MD/ANAC, similar estrangeiro - Exportar?***
 - ***Capacidade de produção/sustentação do PRODE***
 - ***Controle de custos***
 - ***“Supply Chain”***
 - ***Bens – 25%***
 - ***Serviços – 75% (interessa?)***
 - ***Compra governamental***
 - ***Lei 12598/2012?***
- ***Margem de Lucro***
 - ***OEM***
 - ***TIER 1-5***
 - ***Motor***
 - ***aviônicos***

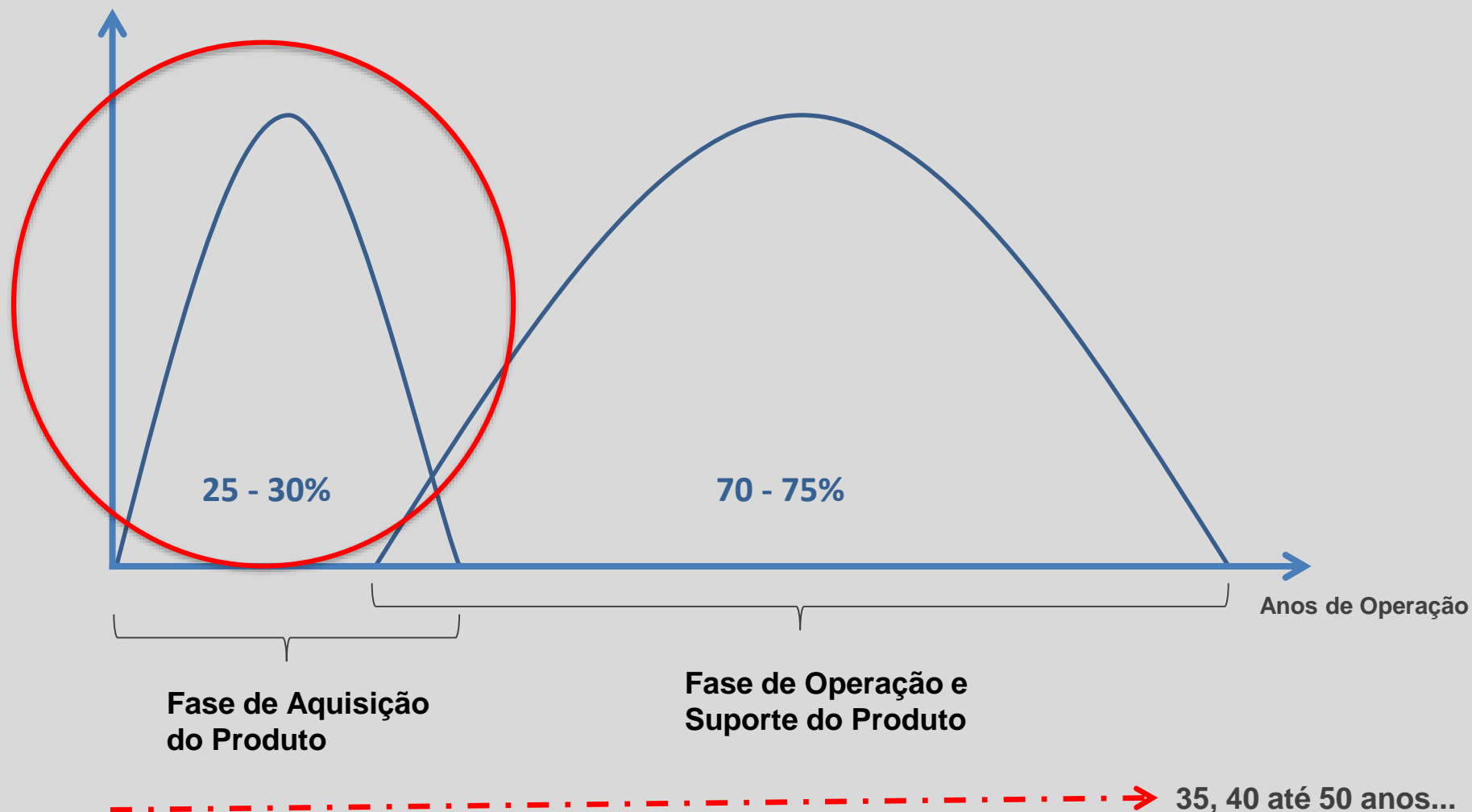


Custo do Ciclo de Vida de Sistemas



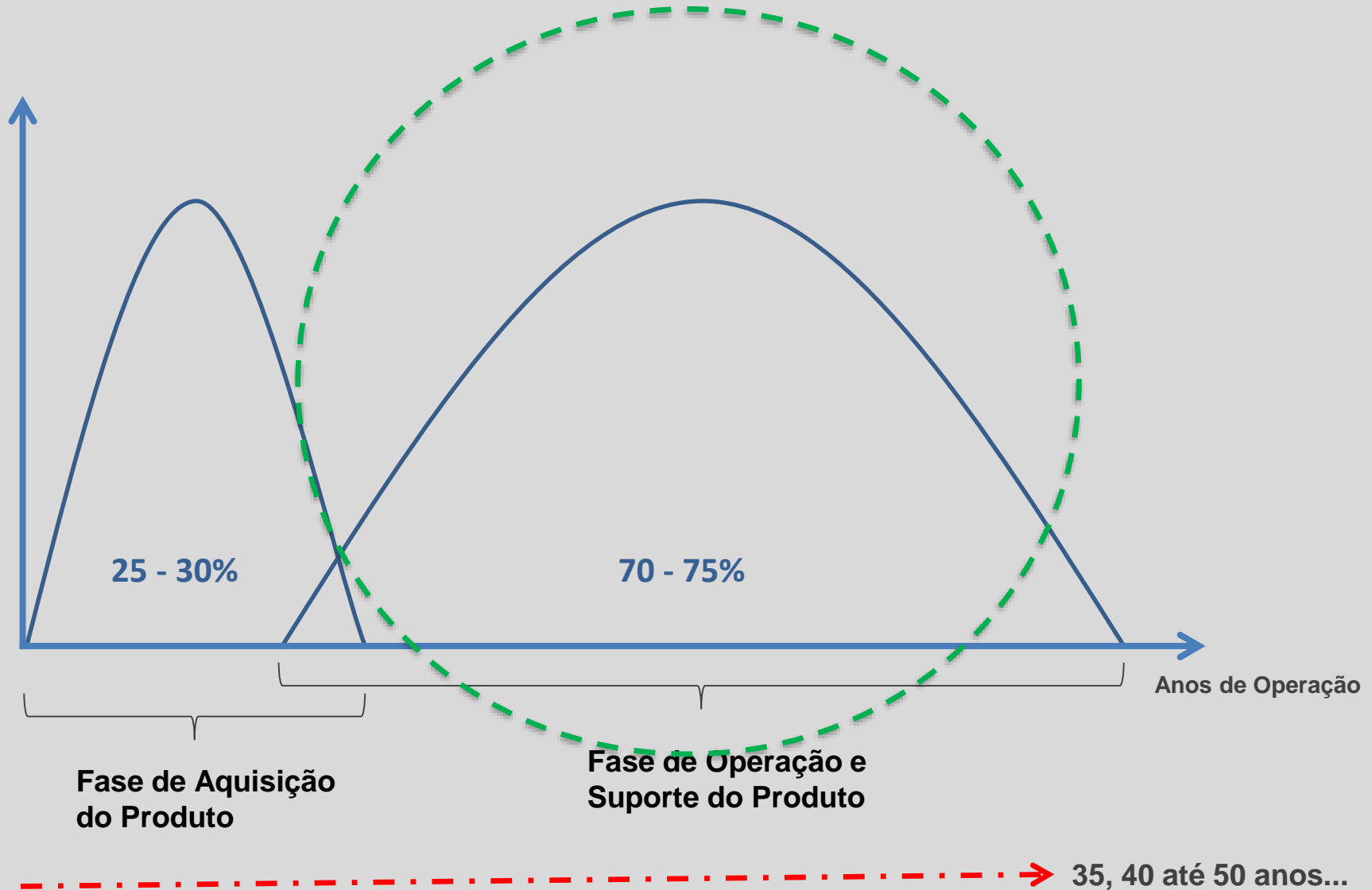


Custo do Ciclo de Vida de Sistemas



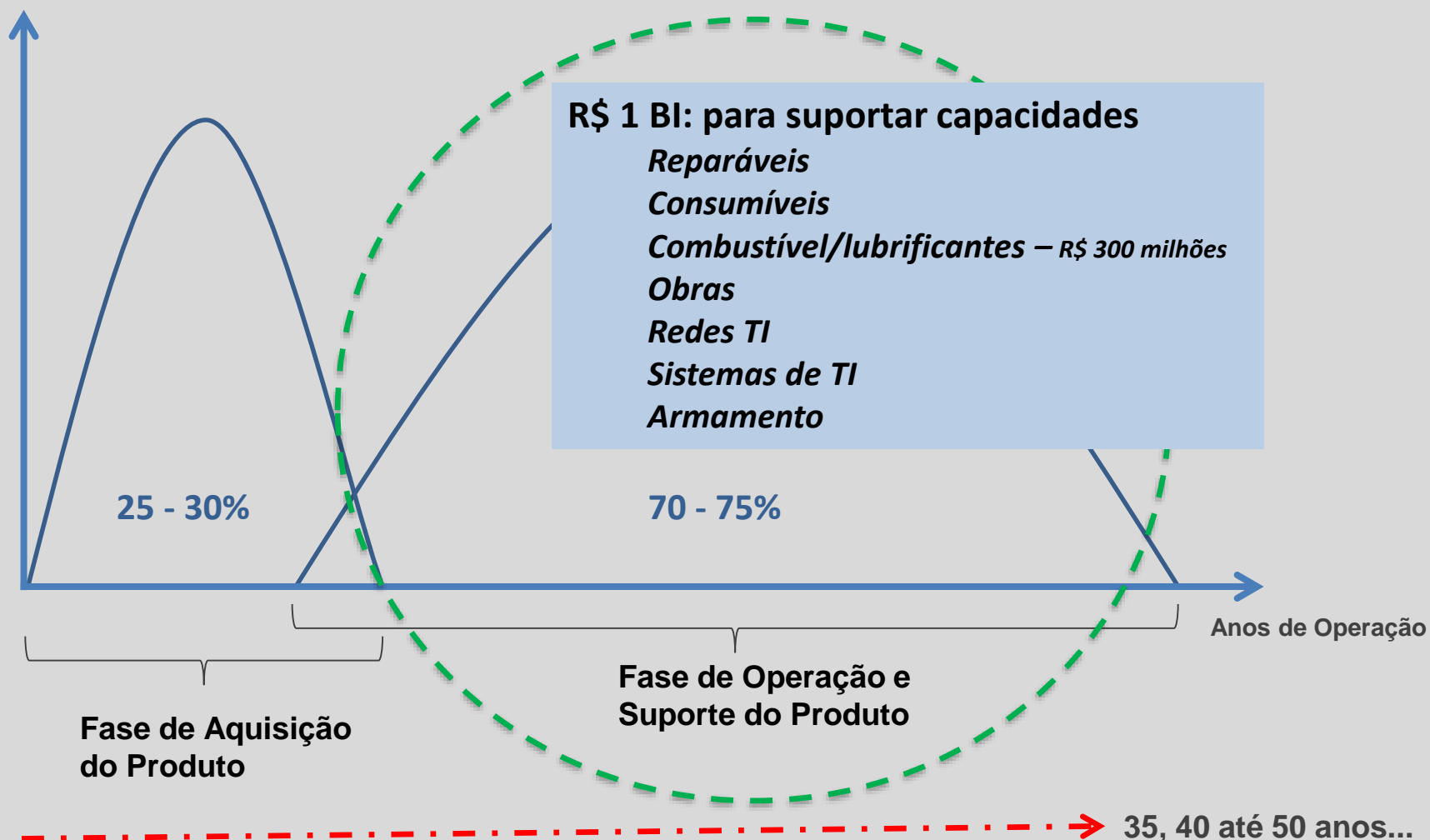


Custo do Ciclo de Vida de Sistemas





Custo do Ciclo de Vida de Sistemas



“O futuro logístico da FAB e a BID”



Associação Brasileira
das Indústrias de Materiais
de Defesa e Segurança

Reunião Plenária ABIMDE

São Paulo- SP

5 nov 2019



FORÇA AÉREA BRASILEIRA

Asas que protegem o País