

## Dr. Walther Otremba new Undersecretary of State in MoD

**Berlin.** The former Undersecretary of State in the Federal German Ministry of Finance, Dr. Walther Otremba, has been assigned the position of Undersecretary of State in the Federal Ministry of Defence, thus succeeding Dr. Peter Wichert in this position. Dr. Otremba was born on 23 September 1951 in Ahrensburg



Dr. Walther Otremba.  
Photo: Federal Ministry of Finance

(Northern Germany). He studied Economics and started his political career in the Finance Ministry. From 2006 to 2009 he was Undersecretary of State in the Federal Ministry of Economics and Technology, following which assumed his position in the Ministry of Finance. German Defence Minister zu Guttenberg anticipates that Dr. Otremba as an expert in public service will make a significant and speedy contribution to the forthcoming reforms in the MoD. "I am pleased to have won such an experienced, well-known and trustworthy expert for this position", zu Guttenberg stated.

## KMW establishes Asia Pacific Hub in Singapore

**Singapore/Munich.** Krauss-Maffei Wegmann (KMW) announced the founding of a new subsidiary in Singapore. Under the name of KMW Asia-Pacific, it will operate as a regional hub for KMW's activities in Singapore and Asia. The new company is headed by Christian Goettfert, KMW's former Regional Sales Director for Asia-Pacific. He has a long standing record in sales and marketing and an in-depth knowledge of the region. In a first step the company's core function will be the coordination of all industrial activities related to



LEOPARD 2A4 of the Republic of Singapore Army.  
Photo: Jonathan G. Seow

LEOPARD 2 MBT deliveries to Singapore, commissioning and follow-on-support of the weapon systems. In addition the company will focus on the generation of new business opportunities in a market that is of strategic importance due to the high demand for highly sophisticated land systems and cutting-edge technologies. With the formation of its Asian-Pacific subsidiary KMW also continues its path of regional cooperation and technology transfer. In order to ensure the LEOPARD MBT's combat effectiveness, KMW builds on the strong partnership with Singapore's local industry partner ST Kinetics. Since the beginning of the main battle tank programme in the Republic of Singapore KMW has trained ST Kinetics personnel in Germany and in Singapore in the servicing and technical maintenance of the systems – a partnership that is to be further expanded in the future.

## ATLAS completes GREX EU Research Project

**Bremen.** ATLAS ELEKTRONIK has successfully completed the GREX European research project. ATLAS contributed an autonomous underwater vehicle (AUV) of the "SeaBee" type to the research fleet and also managed the entire project. The objective of the project was the coordinated operation of different types of existing unmanned marine vehicles, so that they could jointly perform specific tasks. In order to address possible applications in marine biology and the offshore industry, various scenarios were developed for the tests. Within the scope of the final sea trials in the Portuguese bay of Sesimbra, the project partners demonstrated the practical suitability of the research results. Several coordinated missions were successfully implemented with real vehicles. Besides the team capabilities, it was also possible to use the AUV "SeaBee" to test new technologies for future deep-sea vehicles, e.g. oil-filled cables, motors and electronic enclosures, pressure-neutral batteries and a bus system derived from the automotive industry.

Since 2006, a total of eight research and industrial partners from five countries have cooperated on the GREX research project, which

is being funded by the European Commission under the 6<sup>th</sup> EU Framework Programme. In addition to ATLAS, the Technical University of Ilmenau (Germany), Instituto Superior Tecnico (Portugal), Ifremer (France), the Department of Oceanography and Fisheries at the University of the Azores (Portugal), Innova S.p.A. (Italy), MC Marketing Consulting (Germany) and SeeByte Ltd. (Great Britain) are members of the GREX team.

## Maiden Flight of CH-53GA at Eurocopter Plant in Donauwoerth

**Donauwörth.** In the presence of some 200 guests from the German Armed Forces, the armaments sector and industry as well as 30 representatives from the press the official maiden flight of the modernised CH-53GA medium transport helicopter took place at Eurocopter's German facility in Donauwoerth in February. The CH-53 was introduced by the German Army Air Corps in 1972, and the current fleet comprises 92 aircraft, of which 82 are to be kept in service until beyond 2020. Under the CH-53GA programme 40 CH-53 of the GS version of the German Army are to be upgraded to GA standard, with their service life extended until 2030. The framework agreement between the Federal German Office of Defense Technology and Procurement (BWB) and Eurocopter was signed in 2007. The programme has a financial volume of between 400 and 500 million Euros and encompasses modernisation measures as follows in order to adapt the aircraft to a variety of national and international mission profiles, among them deployments in Afghanistan as part of ISAF: Improvement of display and handling elements through the integration of a modern digital avionics system; improvement of the navigation precision and flight capability according to international instrumental flight requirements (incl. GPS for civilian landing approaches); integration of a new automated flight control system (AFCS, 4-axle autopilot) incl. automated hovering operation; increased operational range to 1,200 km through additional inboard fuel tanks; modification of avionics and communication fit for joint operations with NH90 and TIGER helicopters; integration of modular mission equipment including forward-looking infrared system (FLIR), satellite communication (SatCom), a modern electronic warfare system (EWS) with radar warning receiver, missile approach warner, chaff and flare dispensers for electronic self-protection and identification of threats. Training operations are to commence in the first quarter of 2011; the service introduction of the improved aircraft is scheduled between 2011 and 2013.

During a subsequent press conference, Ralf Barnscheidt, the Director for Government Re-



White-Out over Donauwoerth: GH-53GA during its maiden flight on 1. February 2010. Photo: Eurocopter

lations on the Management Board of Eurocopter Germany, informed about the company's perspectives in light of the European "Future/Heavy Transport Helicopter" (FTH) requirement, which calls for the introduction of new aircraft as successors of the CH-53GS from 2020 onwards: The German requirement is believed to be between 40 and 60 helicopters, whereas the French want probably 20. For technical, financial and reasons of time the governments of both countries have excluded the option of a complete new development. Rather, the FTH programme is to be implemented on the basis of existing solutions like Sikorsky's CH-53K, which is currently under development for the U.S. Marine Corps, and Boeing's CH-47 CHINOOK. According to Barnscheidt, more intensive talks are being held with Boeing since it is believed that a tandem rotor design will turn out to be the preferred solution in response to the requirement.

## New Chief of Staff, German Armed Forces

**Berlin.** General Volker Wieker is the new Chief of Staff of the Bundeswehr. "General Wieker is a highly experienced officer who has provided proof of his capabilities in a large series of exposed positions", the German Defence Minister Karl-Theodor zu Guttenberg stated on the occasion of Wieker's inauguration, noting that the new chief brought along both year-long expertise in active military service and at staff levels in the Ministry of Defence. "I am convinced that General Wieker will consequently and decisively bring forward the continued mission orientation, which is required for the Bundeswehr, and operate as the highest ranking Bundeswehr officer and adviser of the Federal Government in the best possible way and for the sake of the nation's citizens", Guttenberg said and praised the General as a "first-class soldier". Wieker succeeds General Wolfgang Schneiderhan, who resigned from this position on 25 November 2009. General Volker Wieker was born on 1 March 1954 in Delmenhorst. He is married and has two children. In July 1974 he entered military service with the Bun-

deswehr as an officer applicant and was subsequently trained as an artillery officer. After his promotion to Lieutenant and a study of Surveying and Mapping at the Bundeswehr Uni-



General Volker Wieker is the new Chief of Staff, German Armed Forces. Photo: FMoD

versity in Munich he completed all basic career steps of an artillery officer including positions as platoon commander, battery officer and battery chief. His military home at that time was the Artillery Battalion 315 in Wildeshausen. From October 1987 to September 1989 he took part in the 30<sup>th</sup> General Staff Course at the Bundeswehr Command and General Staff College, following which he assumed a position as an instructor in the Human Resources Division of the Federal Ministry of Defence in Bonn. Thereafter he completed general staff training at the U.S. Army's Fort Leavenworth facility and served as G3 staff officer in the Armoured Brigade 21 in Augustdorf. From 1993 to 1996 he was the Commander of Artillery Battalion 215 at Augustdorf, following which he relocated to the German Army contingent IFOR (Bosnia-Herzegovina) as a staff officer for deployment and training and director of the operations centre. From 1997 to 1999 General Wieker served as adjutant to the Federal Minister of Defence. Thereafter he became the director of the "Continued Development, Army" working group of the German Army Staff. At the end of 1999 he assumed command of Armoured Infantry Brigade 40 "Mecklenburg" in Schwerin. In this position he directed the 3<sup>rd</sup> Mission Contingent KFOR (Kosovo) as the Commander of the Multinational Brigade South and National Commander in the Theatre of Operation. In 2002 he became Chief of Staff of the German Army TRADDOC in Cologne (Heeresamt). In March 2004 he assumed the position of Chief of Staff of the German Army Staff in the Ministry of Defence. From 27 September 2007 to

2 July 2008 Wieker was the Deputy Commander of 1 GE/NL Corps in Münster. Since then he has been the Commander of the Corps. Since 9 October 2009 General Wieker has been the Chief of Staff in the ISAF Headquarters in Kabul, Afghanistan.

## EDA selects EADS DS and Astrium for UAV Study

**Brussels.** The European Defence Agency (EDA) has selected an Astrium and EADS Defence & Security (DS) consortium to lead a six-month study to demonstrate that by using satellite communications it is feasible to integrate UAVs into civil airspace. DS refers to more than 30 years of expertise in UAVs, and Astrium is to determine how and what satellite-based services are needed to operate the UAVs safely in civil airspace. Today UAVs are only operating in segregated airspace for military operations. Integrating UAVs safely into civil airspace would enable them to be used to assist in a variety of civil and para-civil applications. These include maritime patrol, border surveillance, agricultural monitoring, weather/atmospheric data collection, and high-altitude geological and infrastructure mapping. As part of the six-month feasibility study, the consortium will meet key European civil and military stakeholders. The purpose of these meetings will be to receive their endorsements on safety and regulatory policy, and on future applications. On completion of the study, EDA and the European



EADS' HARFANG is based on the Israeli HERON 1 UAV. Photo: defenseindustrydaily.com

Space Agency (ESA) are expected to jointly fund a demonstration programme. In preparation of this demonstration, DS will investigate the possibility to fly a MALE UAV that will be controlled via a satellite communication link provided by Astrium Services. The two companies already collaborate in Afghanistan, where a HARFANG UAV, developed by EADS Defence and Security in response to the French SIDM ((Système Interiminaire de Drone MALE) requirement, is being operated by the French Air Force. The consortium comprises 11 members including Astrium, DS, QinetiQ, ISDEFE

as well as IABG and combines the industrial capabilities of specialists in UAVs, space-based telecommunications and air traffic management in France, the UK, Spain and Germany.

## Plath scores in MoGeFA Competition

**Hamburg.** As the prime contractor Plath GmbH has been awarded the contract for the development of the MoGeFA system (Mobile Geschützte Fernmeldeaufklärung) for mobile protected radio communication intelligence. In the scope of the programme Plath will equip three vehicles with the system with the option of a series production contract. MoGeFA will provide the Bundeswehr with a state-of-the-art system for mobile COMINT for operations primarily in conflict areas. MoGeFA portrays the entire signal situation in all relevant frequency ranges and has been designed as a modular and scalable equipment set, which allows for dedicated modifications, including changing master/slave configurations. The Bundeswehr provides the protected vehicles as mobility platforms (GFE). The sensor fit of the system is characterised by high sensitivity, accuracy, reliability, bandwidth and scanning speed. The system detects and localises all electromagnetic signals in the selected frequency range. Quick processing and evaluation of a high volume of data is supported by a high level of operational automation, which is generated by respective devices and systems, part of which have already been introduced.

## EADS DS contributes to Efficiency of Helicopter Operations

**Ulm.** In the future, the German Armed Forces will operate their helicopter fleet with the help of a standardised Operations Support System (OSS), thus increasing mission availability while reducing operational costs. EADS Defence & Security was awarded a respective contract by the Federal German Office of Defense Technology and Procurement (BWB). The Operations Support System has been developed by EADS DS' Business Unit Defence Electronics (DE) and provides both operational control and technical/logistic support for the helicopters. The systems will be used for the TIGER combat helicopter and the NH90 transport aircraft. The scalable IT system enables mission planning based on tactical and logistic data and increases accuracy in flight preparation. Moreover, the OSS improves the efficiency of the operation, reduces operational costs and improves the mission capabilities of helicopter formations in the theatres of operation. For more than a year an Operations Support



Containerised Operations Support System (OSS).

Photo: EADS

system from DE has been in use at the German army aviation base in Bückeburg for NH90 test and training operations.

## Maintenance Contract for Royal Navy Destroyers

**Kiel.** Raytheon Anschutz will be in charge for the entire maintenance of the British Royal Navy's new T-45 destroyer fleet's integrated bridging and navigation systems. A respective contract for the In-Service Support (ISS) until at least the year 2016 has recently been awarded to the British Raytheon Systems Ltd. and Raytheon Anschutz of Kiel by BVT Surface Fleet, the prime contractor for the destroyers of the DARING Class. This contract is a follow-on on the award to Raytheon for the delivery of the navigation system. It is for the first time that a subcontractor has been selected to maintain the bridging systems of the Royal Navy. Under the terms of the contract Raytheon Anschutz provides technical service and spare parts around the clock and executes dedicated obsolescence and programme management. As a result the British Navy takes advantage of a maximum life cycle period at predictable operational costs. Besides, Raytheon Anschutz will establish a reference system at the company's location in Kiel for technical service and development support and training of the Royal Navy's maintenance engineers. The contract for the supply of the integrated navigation systems was already awarded in the year 2000. Each of the vessels is equipped with six multi-function systems with radar and electronic sea map as well as with the compass and navigation package with a complete set of navigation sensors. Apart from Raytheon's global service capacities the customer satisfaction with the navigation systems was a critical precondition for the recent contract award.

## VIP Visitors at SFC

**Brunnthal/Munich.** Prior to the Munich Security Conference in February former US Secretary of Defense, William S. Cohen, General Joseph W. Ralston, former Supreme Allied Commander Europe and Dan Fata, former Deputy Assistant Secretary of Defense for European and NATO policy visited the SFC Smart Fuel Cell headquarters in Brunnthal. SFC is a market leader for mobile and off-grid power solutions based on fuel cells. The purpose of the visit was to discuss fuel cell applications in the security and defence markets. During the visit the Bavarian State Government was represented by State Minister Siegfried Schneider, Head of the Bavarian State Chancellery, who stated that the application of fuel cell technology represented an important goal of the "Bavaria on the Move: Family, Education, Innovation" growth initiative to keep Bavaria at the top of the world when it comes to technologies of the future. Secretary Cohen emphasised that the benefits of the fuel cell technology included the reduction of weight, near silent charging capabilities, and a high density energy solution and pointed to a wide range of possible applications such as border protection or off-grid surveillance. The broadest fields of use he saw in defence and security applications as well as a market in its infancy state – electric mobility.

## Change of Ownership of TKMS' Emden Site Completed

**Hamburg/Emden.** SIAG Schaaf Industrie AG has taken over the ThyssenKrupp Marine Systems company in Emden, which will continue to operate as a manufacturer of towers,



Exchanging views in Brunthal (f.l.t.r.): Dr. Jens Müller (COO SFC AG), Dr. Rolf Bartke (Chairman of the Supervisory Board of SFC AG), State Minister Siegfried Schneider, Secretary William S. Cohen, General Joseph W. Ralston. Photo: SFC

machinery frames and foundation structures for offshore wind power plants under the name off SIAG Nordseewerke GmbH. ThyssenKrupp Marine Systems (TKMS) will remain tied to the Emden location: TKMS Blohm + Voss Nordseewerke will retain their shipbuilding expertise in the naval surface vessel and submarine engineering sectors as well as in the repair and outfitting sector at the Emden location.

In the course of the year 2010 TKMS aims at reorganising its Emden-based assets as follows: Merge the naval surface ship engineering sector in Emden with the activities at the Hamburg location in a single company and continue activities at both locations; separate the submarine engineering section in Emden to become a branch of Howaldtswerke-Deutsche Werft in Kiel and continue the repair and outfitting activities in Emden under the name "Emder Werft und Dockbetriebe" as part of ThyssenKrupp Marine Systems. At the closing date, a total workforce of about 450 will be employed at TKMS Blohm + Voss Nordseewerke in Emden, whereas SIAG Nordseewerke will have a workforce of about 700, most of them taken over from the production sector. For TKMS, the restructuring of the Emden location marks an important contribution to the consolidation of the shipbuilding activities, especially in the naval surface ship sector.

## Diehl Defence strengthens presence in India

**Remscheid.** Diehl Remscheid GmbH, an affiliate of the German high-tech enterprise Diehl Defence, and India Forge Ltd. signed a Joint Venture (JV) agreement underscoring a long-term strategic partnership. The JV is subject

to approval by the Indian authorities. The JV aims at strengthening Diehl's commitment towards the Indian customer. For several years Diehl Remscheid has been supplying tracks and accessories for the Indian Main Battle Tank Arjun. The JV Track Systems India Ltd. targets further development and production of Diehl System Tracks for several applications, such as the infantry combat vehicles BMP1/2 as well as the T-family of vehicles (e.g. T72, T90) for the Indian market.

## CAE USA expands C-130 Tampa Training Center

**Tampa, Florida.** CAE has expanded its C-130 training center located in Tampa, Florida with the addition of a new C-130H full-mission simulator. The new simulator features Esterline CMC Electronics' C-130 glass cockpit avionics systems, which CMC offers to global C-130 operators considering avionics modernization programs for existing C-130 Hercules aircraft. The new simulator features the CAE True™ electric



C-130H Full Mission Simulator in Tampa, Florida.

Photo: CAE

motion system as well as the CAE Medallion™ 6000 visual system. CAE's C-130 Tampa Training Center now includes three C-130E/H reconfigurable full-mission simulators, as well as a C-130E/H flight training device and part-task trainers. The C-130 training center offers comprehensive aircrew and maintenance training in 12 multi-media classrooms to provide complete training for C-130 pilots, flight engineers, loadmasters, and maintenance technicians.

"Over the past two decades, CAE has delivered more training systems for the C-130 than any company and our C-130 Tampa Training Center is a perfect example of our continued leadership in supporting the training requirements of global militaries flying the venerable C-130 aircraft," said John Lenyo, president and general manager of CAE USA. "We are pleased to be working closely with Esterline CMC Electronics as they offer their C-130 aircraft upgrade customers a world-class modern avionics cockpit solution." "CAE's world-class simulation and training solutions will serve our C-130 upgrade customers well with the new C-130H full-mission simulator that features CMC's cockpit avionics systems," said Greg Yeldon, president of Esterline CMC Electronics.

## Cockpit Procedure Trainer for the German Navy

**Fuerstenfeldbruck.** ESG Elektroniksystem- und Logistik-GmbH was commissioned by the Federal Office of Defence Technology and Procurement (BWB) to develop a Cockpit Procedure Trainer (CPT) for the Sea Lynx MK88A on-board helicopter. The trainer was approved by the BWB and the Naval Air Wing 3 (MFG 3) in Nordholz, Germany in January 2010 and transferred to the customer, MFG 3's training squadron. The regular flight-crew training starts at the beginning of April. The Sea Lynx CPT was especially designed to meet the requirements of flight crews with regard to the implementation of the avionic upgrade IFR 2. The CPT consists essentially of two fundamental components: the cockpit module and the Instructor Operating Station (IOS). The cockpit module uses seven touch-screen monitors to simulate the original helicopter cockpit.

The modular structure of the CPT offers potential for further enhancements in order to implement additional, future training requirements, for example in the areas of navigation, communication and reconnaissance. For over forty years, ESG has been one of Germany's leading companies for the development, integration and operation of electronic and IT systems. With more than 1.200 employees globally, we provide logistics, system development, training and consultancy services for military, government and industry customers.

## German Army orders 41 DINGO 2

**Munich.** The DINGO 2 has already been successfully tried and tested in numerous international missions, including in Bosnia, Kosovo, Afghanistan and Lebanon. Next to Germany it is also used by Austria, Belgium, Luxembourg



Wheeled vehicles DINGO 2. Photo: KMW

and the Czech Republic. The Federal Office of Defence Technology and Procurement (BWB) has now ordered a further 41 of these heavily-protected personnel and material carrier from Krauss-Maffei Wegmann (KMW), which the German Army will deploy in Afghanistan. The leading European manufacturer for protected wheeled and tracked vehicles will deliver the 41 DINGO 2 to the troops even before the end of the year. "This short delivery period underlines the flexibility and industrial performance of Krauss-Maffei Wegmann", says Frank Haun, CEO and Chairman of the Board of KMW

## Protecting forward operating bases

**Duesseldorf.** The European Defence Agency, or EDA, has contracted with Rheinmetall and

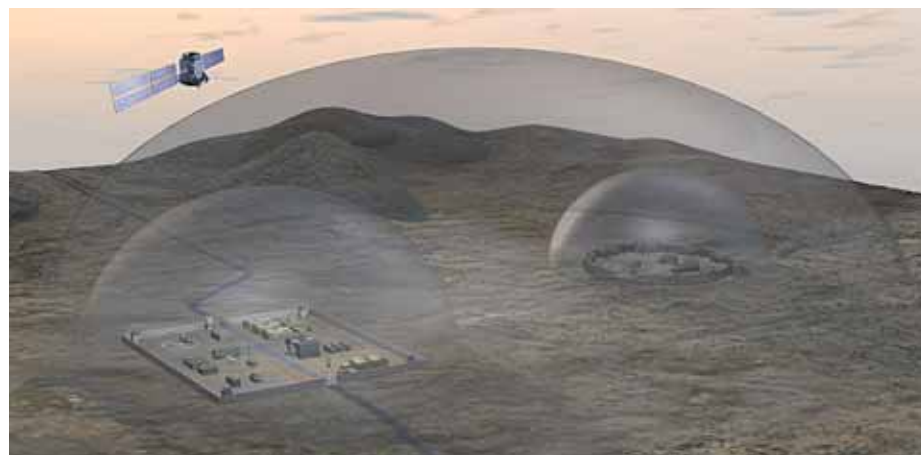


Illustration of the German-French Project FICAPS.

Graphic: Rheinmetall

its partners in Germany and France to create a demonstrator system for protecting military assets and installations in a multinational context. Standing for "Future Interoperability of Camp Protection Systems", the Franco-German FICAPS project seeks to develop methods and means to harmonize semi-static and mobile protection systems for the combined (multinational) protection of co-located sections, camps and critical infrastructure.

Development of a common system architecture for linking various semi-static and/or mobile protection systems will enable better cooperation between the armed forces of different nations, thus fostering greater interoperability. Interoperability of equipment and systems has emerged as a critical factor in coalition operations. After all, in this era of international conflict management and intervention, a growing number of missions involve troops from more than one country. Having embarked on national programmes to develop systems for protecting military camps and semi-static bases, Germany and France agreed back in 2005 to launch a bilateral project to promote European interoperability of these systems.

Adopting a "system of systems" approach, FICAPS will draw on national assets to implement a European protection system demonstrator featuring interoperable capabilities for defending facilities such as forward operating bases. The programme will involve increased sharing of human and technological resources in a joint or even combined framework. The Rheinmetall consortium has been given a three-year processing period to complete this task. The French and German governments have assigned coordination of contractor activities to EDA in Brussels. The award of this contract brings to a successful conclusion a



On the occasion of the delivery of the 1000<sup>th</sup> digital map generator to Stuart Parkes, Typhoon Mission Avionics procurement manager at BAe Systems (3<sup>rd</sup> from left), Thomas Rumpf, Head of Mission Avionics (2<sup>nd</sup> from left) emphasized the long and successful cooperation between the two companies. The event was also attended by Michel Folscheid (left), Head of Sales Avionics Equipment at DE, Ian Scullion, D&C/IMRS equipment product manager for Typhoon Avionics at BAe Systems (2<sup>nd</sup> from right) and Clemens Peter, Head of the digital map generator programme.

Photo: EADS

three-year preparation and harmonization phase worth a total of eight million Euros.

## EADS delivers its 1000<sup>th</sup> Digital Map Generator

**Ulm.** EADS Defence & Security (DS) has delivered its 1000<sup>th</sup> digital map generator system to BAe Systems for use in the Eurofighter. Map systems support helicopter and aircraft pilots by showing flight data and potential threats on digital maps. The digital map generator is part of a product family of navigation and tactical information systems which Defence Electronics has developed for many different types of military aircraft. It allows coloured topographic maps to be displayed in real time and data specific to the mission to be superimposed over them. This means that the pilots of aircraft and helicopters are given an instrument inside the cockpit, which allows them to quickly and exactly determine their position, their flight path and any threats during a mission and to react accordingly. Moreover, the map data enables special information relevant to the flight such as on flight corridors or approach and departure data to be presented in the display. A further benefit for the pilots is the automatic superimposition of tactical information. Apart from the Eurofighter and Tornado, digital map generators are used in helicopters of various types and makes. Special mention should be made of the EuroGrid system for the military helicopters of the German Armed Forces. EuroGrid has been specifically designed to meet the requirements placed on helicopters, significantly reducing the workload of the pilots. These systems are being successfully used in the German, French and Australian Tiger variants as well as in the German NH90 helicopter.