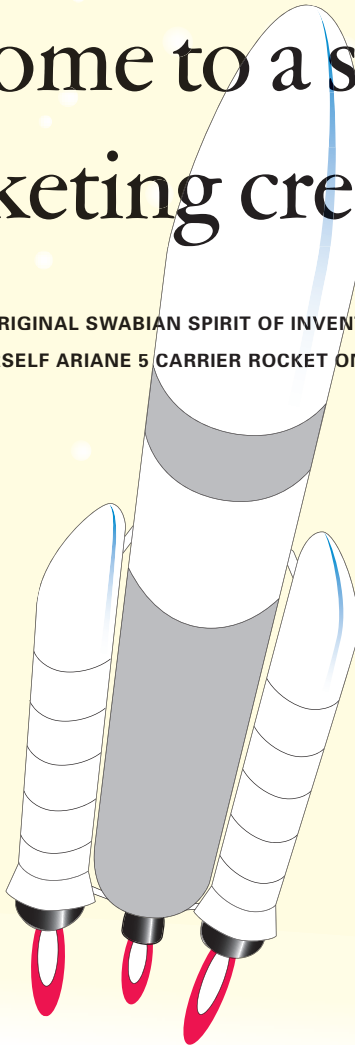


Welcome to a state with rocketing creativity!

TRY OUT THE ORIGINAL SWABIAN SPIRIT OF INVENTIVENESS
WITH THIS BUILD-IT-YOURSELF ARIANE 5 CARRIER ROCKET ON A SCALE OF 1:150.




Baden-Württemberg

The German Southwest.



Aerospace enthusiasts are in seventh heaven here.

 Baden-Württemberg is not only a hotbed of invention and the German record-holder in patent applications, it's also home to many aerospace pioneers – from Count Ferdinand von Zeppelin, the inventor of the rigid dirigible, to Ulf Merbold, Germany's first astronaut, who earned his PhD at the Universität Stuttgart. Baden-Württemberg remains true to this tradition with a large number of present-day aerospace highlights.

TOP RESEARCH

One of the tasks of the German Aerospace Center (DLR) in Lampoldshausen is to test the engines of Europe's Ariane heavy-payload launch vehicles. DLR institutes are also established at the Universität Stuttgart, a focal point of research.

Other key research takes place at the Universität Karlsruhe (TH), the University of Applied Sciences in Esslingen and at the institutes of the Fraunhofer Society – the Ernst Mach Institute (EMI) in Freiburg and the Institute for Chemical Technology (ICT) in Pfanztal.

TOP COMPANIES

Around 17% of the entire German aerospace sector is located in Baden-Württemberg – including EADS, Airbus, Diehl Avionik Systeme, Recaro, Zeppelin-Luftschifftechnik and Schempp-Hirth. Our companies not only build satellites, the Zeppelin NT and the best gliders in the world, they're also key suppliers to large-scale projects such as the Airbus A 380.

TOP UNIVERSITY PROGRAMMES

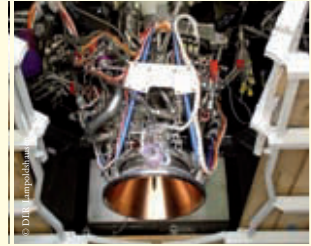
Around one third of all aerospace students in Germany are enrolled in Baden-Württemberg universities.

TOP ADDRESSES

Baden-Württemberg is also home to top addresses for astrophysics, particle physics, microtechnology, new materials, energy supply, communications and geodesy, as well as important centers for astronomy such as the University and Max Planck Institute for Astronomy in Heidelberg. The Baden-Württemberg Forum for Aerospace (LRBW e.V.) has been a networking hub since 2005, turning the sector into a future-oriented cluster.

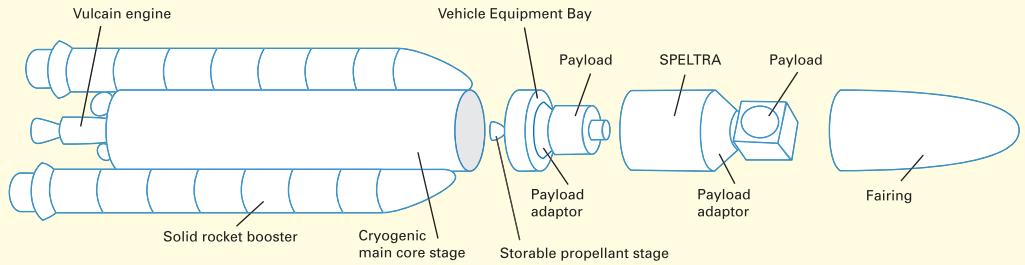
As you can see, we have plenty to offer in terms of aerospace. But you can see that for yourself on a scale of 1:1 – in Baden-Württemberg!

We're looking forward to welcoming you here!

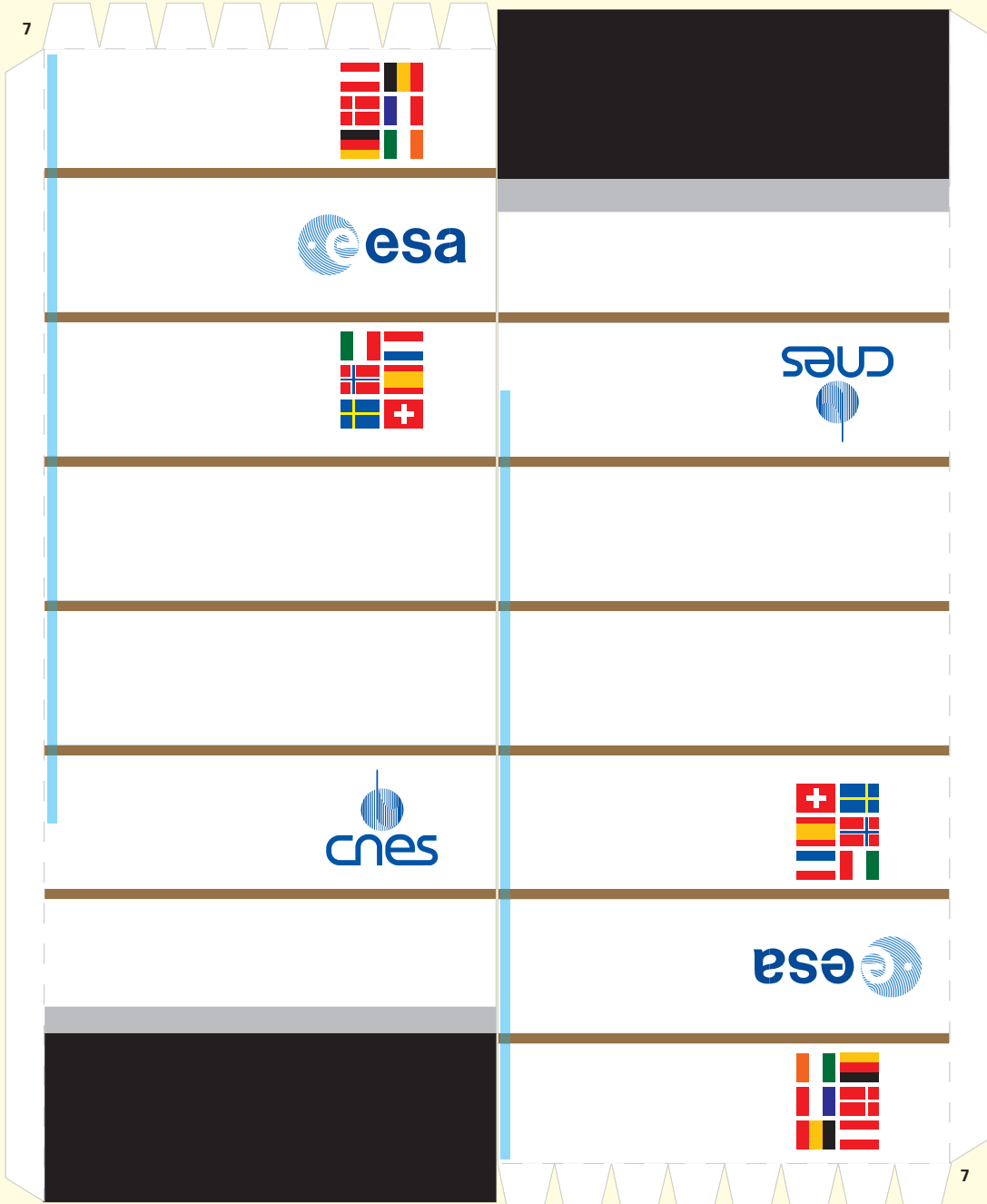
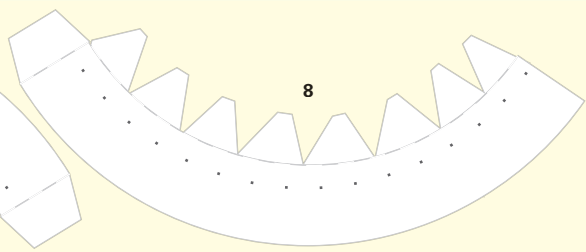
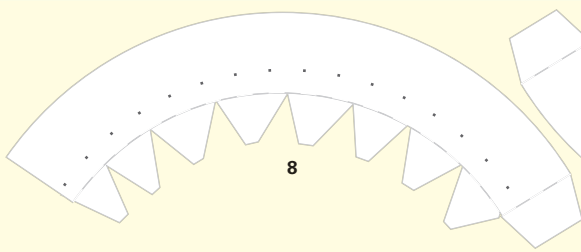


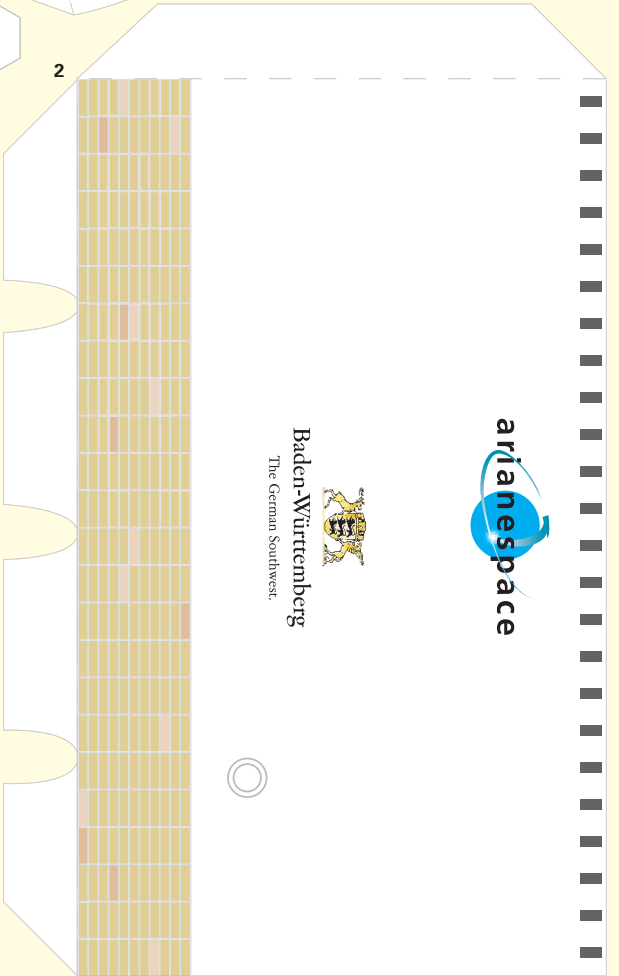
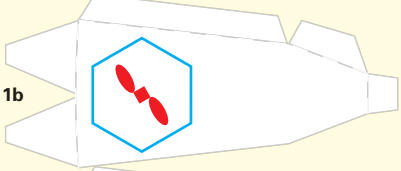
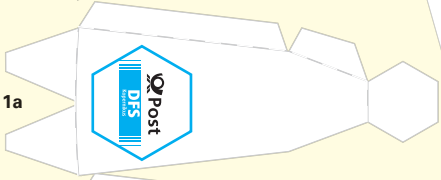
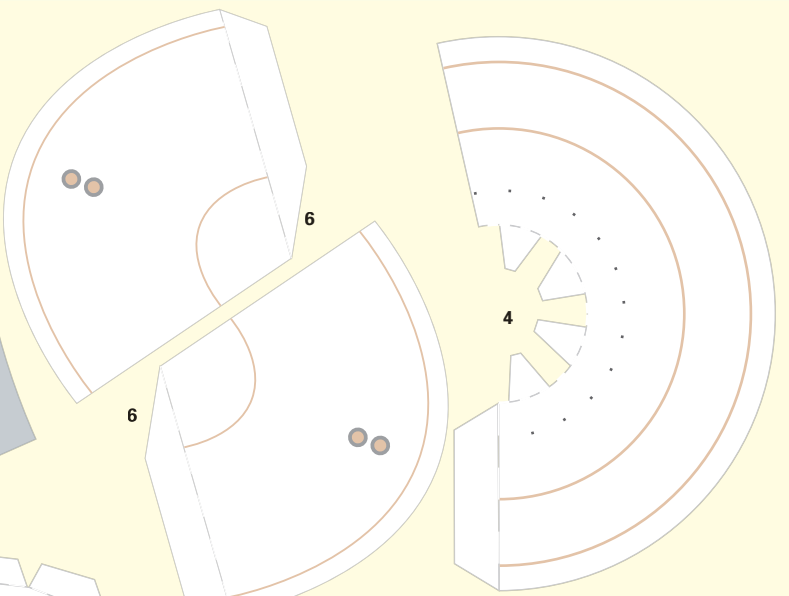
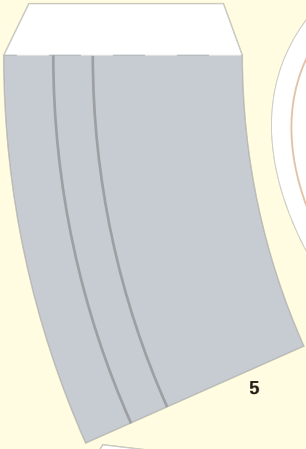
BUILD YOUR OWN ARIANE 5!

The German Aerospace Center (DLR) has acquired expertise unparalleled in Europe in developing and operating high-altitude simulation units for upper-stage engines. As part of the Ariane 5 Plus Programme of the European Space Agency (ESA) and the French space research center CNES, the DLR Lampoldshausen facility in Baden-Württemberg was charged with building the P4.1 high-altitude testing facility and carrying out developmental tests on the next-generation VINCI upper-stage engine. But enough dry facts! Here's your challenge: get into the legendary Swabian spirit of inventiveness, build your own Ariane 5, and put your future onto a spectacular trajectory – in Baden-Württemberg!



TYPE	Ariane 5G	Ariane 5G+	Ariane 5GS	Ariane 5ES	Ariane 5ECA	Ariane 5 <i>next generation</i>
MAIN STAGE FUEL	EPC Generic 158t LOX/LH2	EPC Generic 158t LOX/LH2	EPC Evolution (modified) 158t LOX/LH2	EPC Evolution 173t LOX/LH2	EPC Evolution 173t LOX/LH2	EPC Evolution 173t LOX/LH2
MAIN ENGINE	Vulcain I	Vulcain I	Vulcain I	Vulcain II	Vulcain II	Vulcain II
UPPER STAGE FUEL	EPS 9.7t MMH/N2O4	EPS Versatile 10t MMH/N2O4	EPS Versatile 10t MMH/N2O4	EPS Versatile 10t MMH/N2O4	ESC-A 14.4t LOX/LH2	ESC-B 28.2t LOX/LH2
UPPER STAGE ENGINE	Aestus (non-reignitable)	Aestus (reignitable)	Aestus (reignitable)	Aestus (reignitable)	HM-7B (non-reignitable)	VINCI (reignitable)
BOOSTER FUEL	EAP 238t solid fuel	EAP 238t solid fuel	EAP 241t solid fuel	EAP 241t solid fuel	EAP 241t solid fuel	EAP 241t solid fuel
PAYLOAD CAPACITY	6.1t dual GTO	6.3t dual GTO	5.8t dual GTO	20t to ISS (only planned for ATV launches)	9.1t dual GTO	approx. 11t dual GTO
USED	1996 – 2003	2004	from 2005	from 2007	from 2002	2014 at the earliest
STATUS	Withdrawn (16 flights)	Withdrawn (3 flights)	In use	Qualification phase	In use	In use





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Baden-Württemberg
The German Southwest.

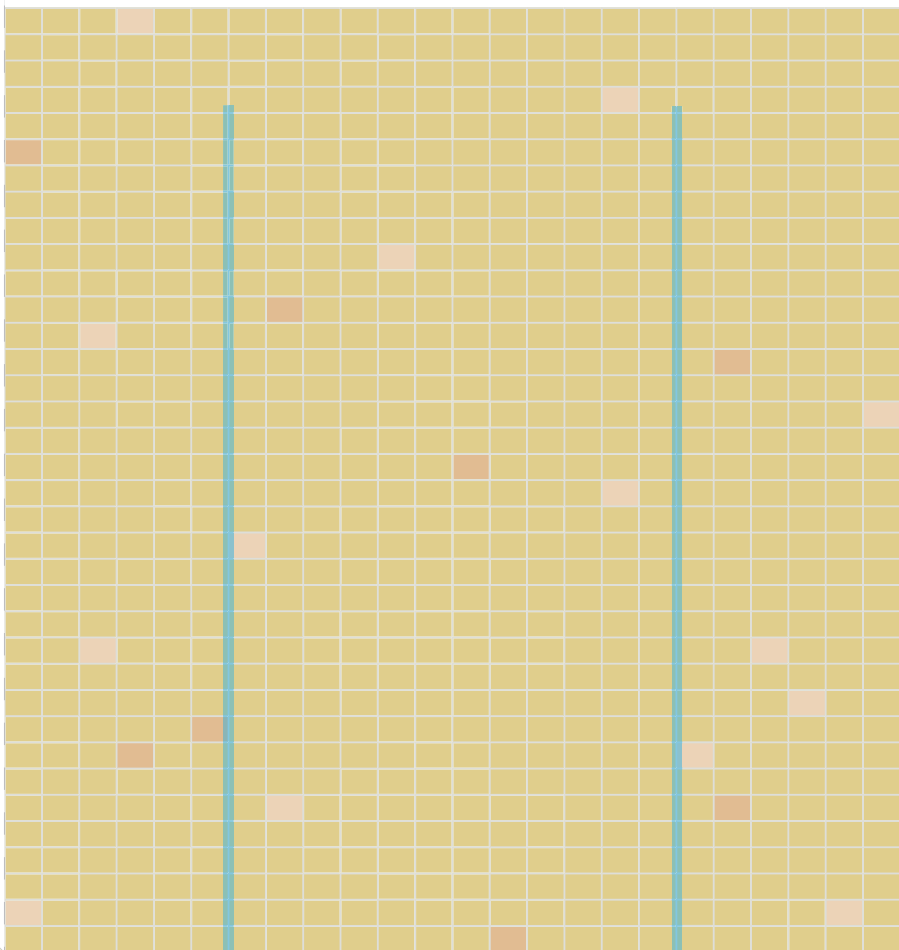


CUT

FOLD

GLUE

3





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Join us on the web!

www.bw-invest.de

This site contains an overview on the State of Baden-Württemberg as a business location as well as a company database.

www.lrbw.de

The Baden-Württemberg Forum for Aerospace (LRBW e.V.) connects and develops the aerospace cluster in the State.

www.study-guide-bw.de

The StudyGuide contains a wealth of information on educational opportunities, research, life and work in Baden-Württemberg.

Contact us!

info@bw-wfk.de

For further information on our services, visit **www.bw-wfk.de**.

Baden-Württemberg International



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