



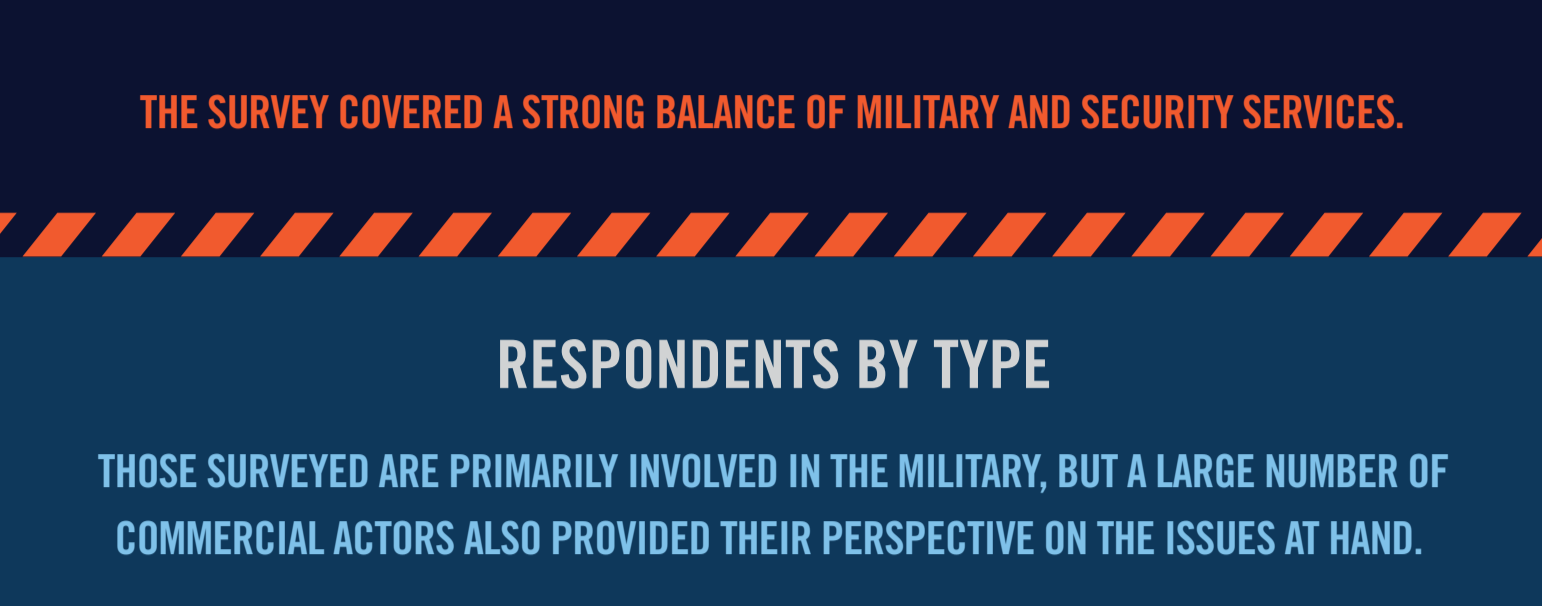
IS DIRECTED ENERGY REALLY THE FUTURE OF WEAPON SYSTEMS?

THE AGE OF DIRECTED ENERGY (DE) IS FINALLY – AND RAPIDLY – MOVING FORWARD. NO LONGER ARE THOSE INVOLVED IN THIS FIELD PRIMARILY FOCUSED ON ISSUES OF POLICY AND POSSIBILITY, BUT INSTEAD ARE FIXED ON THE ADVANCEMENT OF THE TECHNOLOGY INTO UTILITY – EXPLORING ISSUES OF INTEGRATION, SCALE AND OPERATIONAL APPLICATION.

DEFENCE IQ CONSULTED OVER 300 PEOPLE INVOLVED OR INTERESTED IN THE INTERNATIONAL DEFENCE AND SECURITY ARENA TO FIND OUT THE PREVALENT OPINIONS ON THE DE ISSUES OF TODAY. WE MADE SOME INTERESTING FINDINGS, INCLUDING THE FACT THAT MOST OF THESE PEOPLE ARE CONCERNED THAT POTENTIAL ADVERSARIES WILL DEVELOP DE SYSTEMS IN THE NEXT FIVE YEARS, AND THAT THE TECHNOLOGICAL GAP CREATING THE BIGGEST OBSTACLE TO OPERATIONAL USE IS THE RISK OF COLLATERAL DAMAGE.

THE SURVEY WAS UNDERTAKEN AHEAD OF THE ANNUAL DIRECTED ENERGY SYSTEMS CONFERENCE, WHICH, NOW IN ITS ELEVENTH YEAR, WILL BE HELD IN LONDON BETWEEN 21-23 FEBRUARY, 2017.

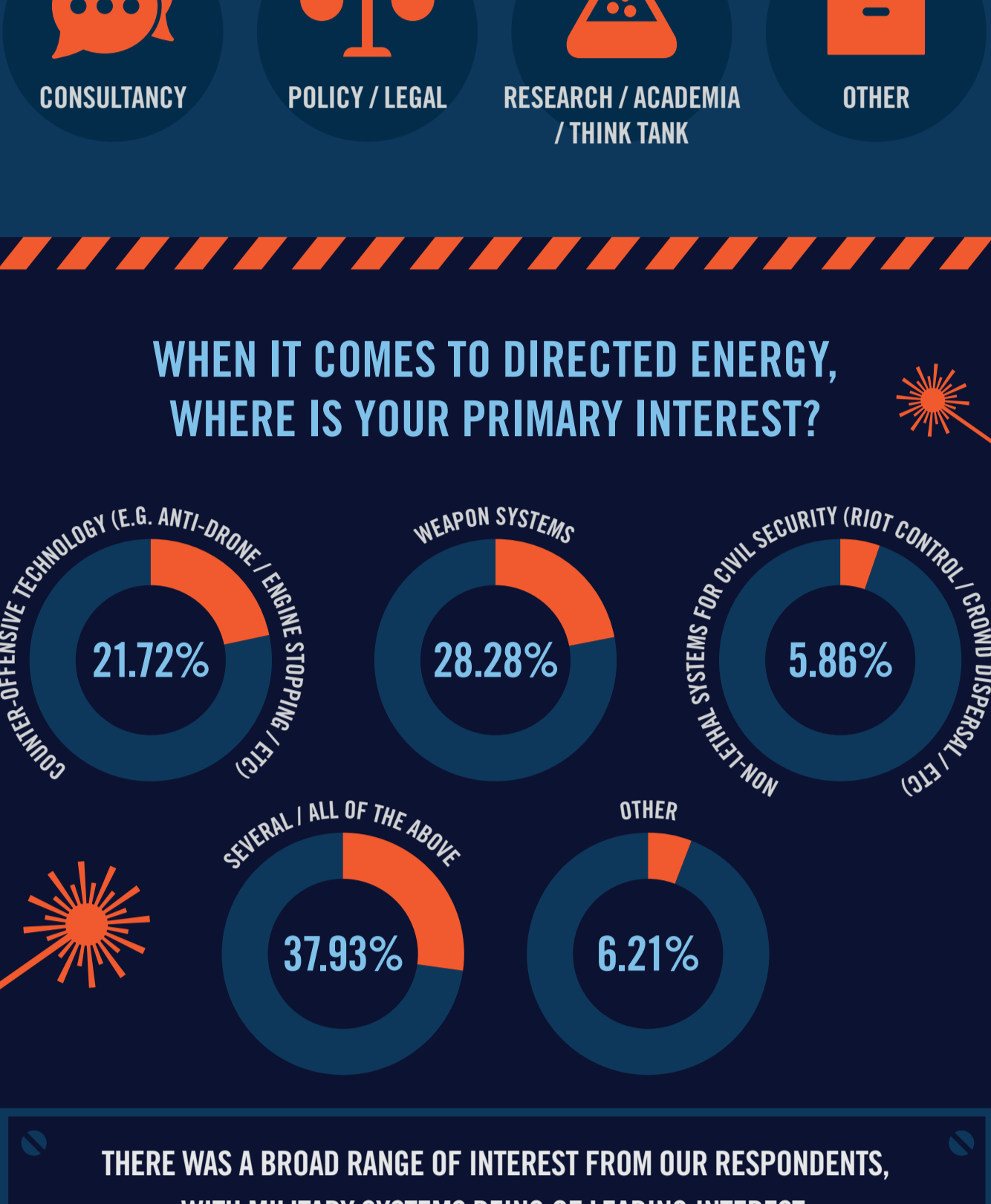
RESPONDENTS BY AREA OF PRIMARY INVOLVEMENT



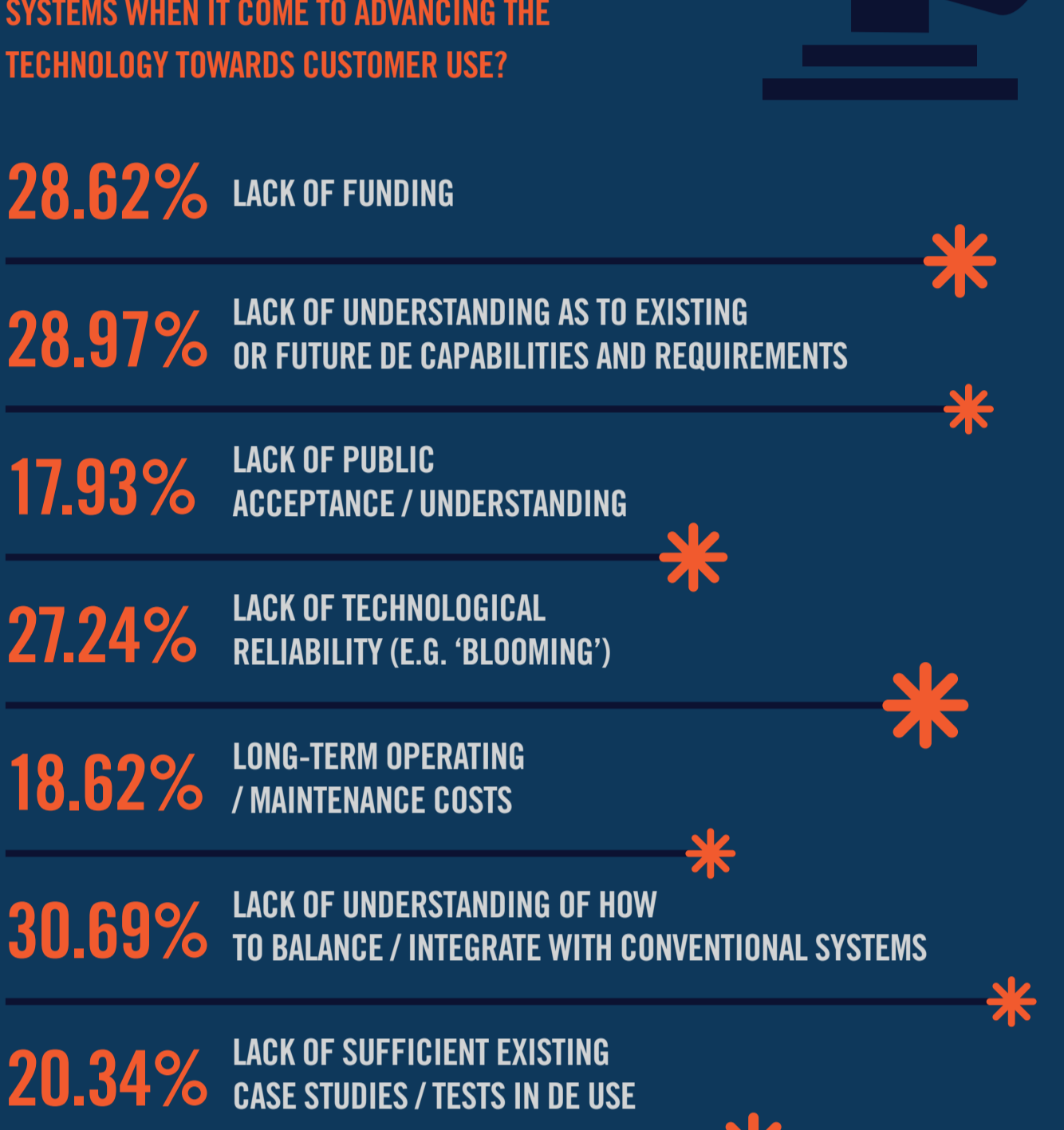
THE SURVEY COVERED A STRONG BALANCE OF MILITARY AND SECURITY SERVICES.

RESPONDENTS BY TYPE

THOSE SURVEYED ARE PRIMARILY INVOLVED IN THE MILITARY, BUT A LARGE NUMBER OF COMMERCIAL ACTORS ALSO PROVIDED THEIR PERSPECTIVE ON THE ISSUES AT HAND.

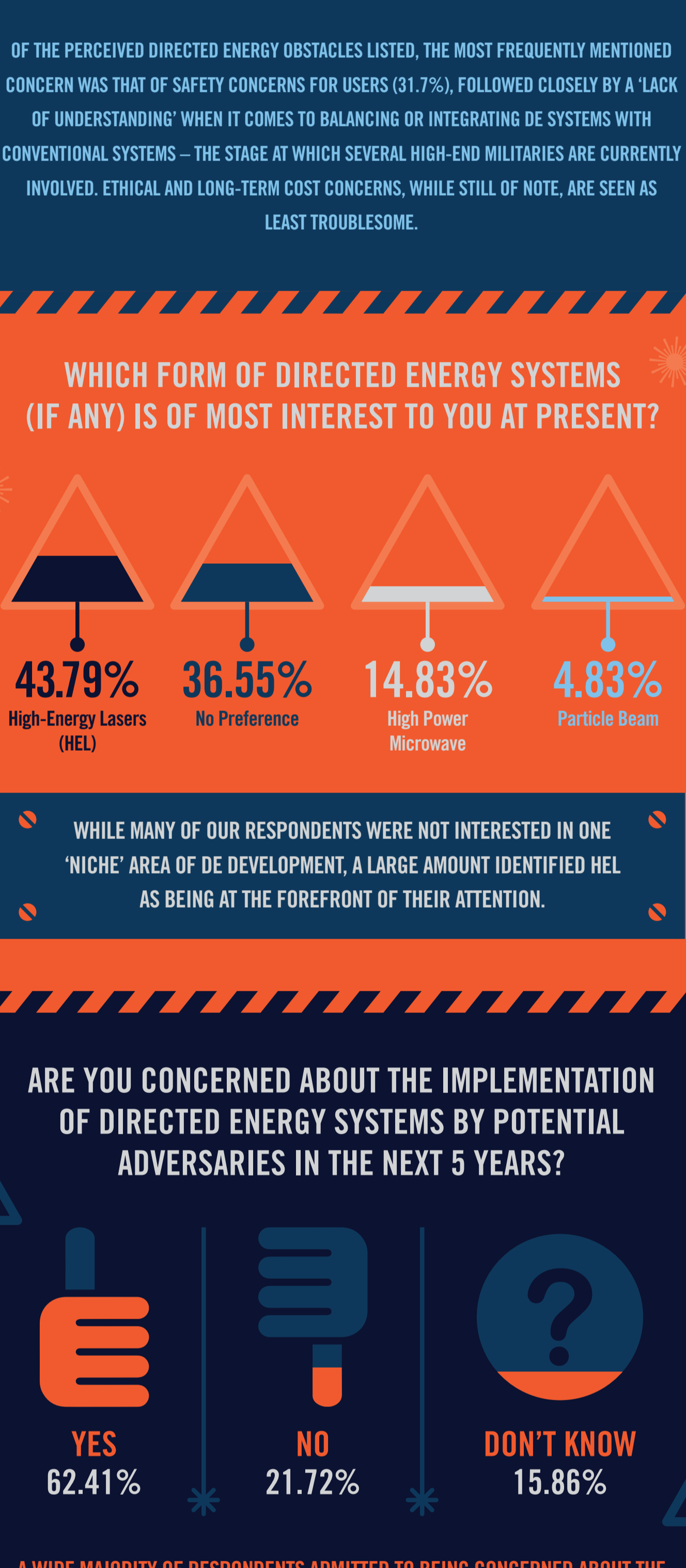


WHEN IT COMES TO DIRECTED ENERGY, WHERE IS YOUR PRIMARY INTEREST?



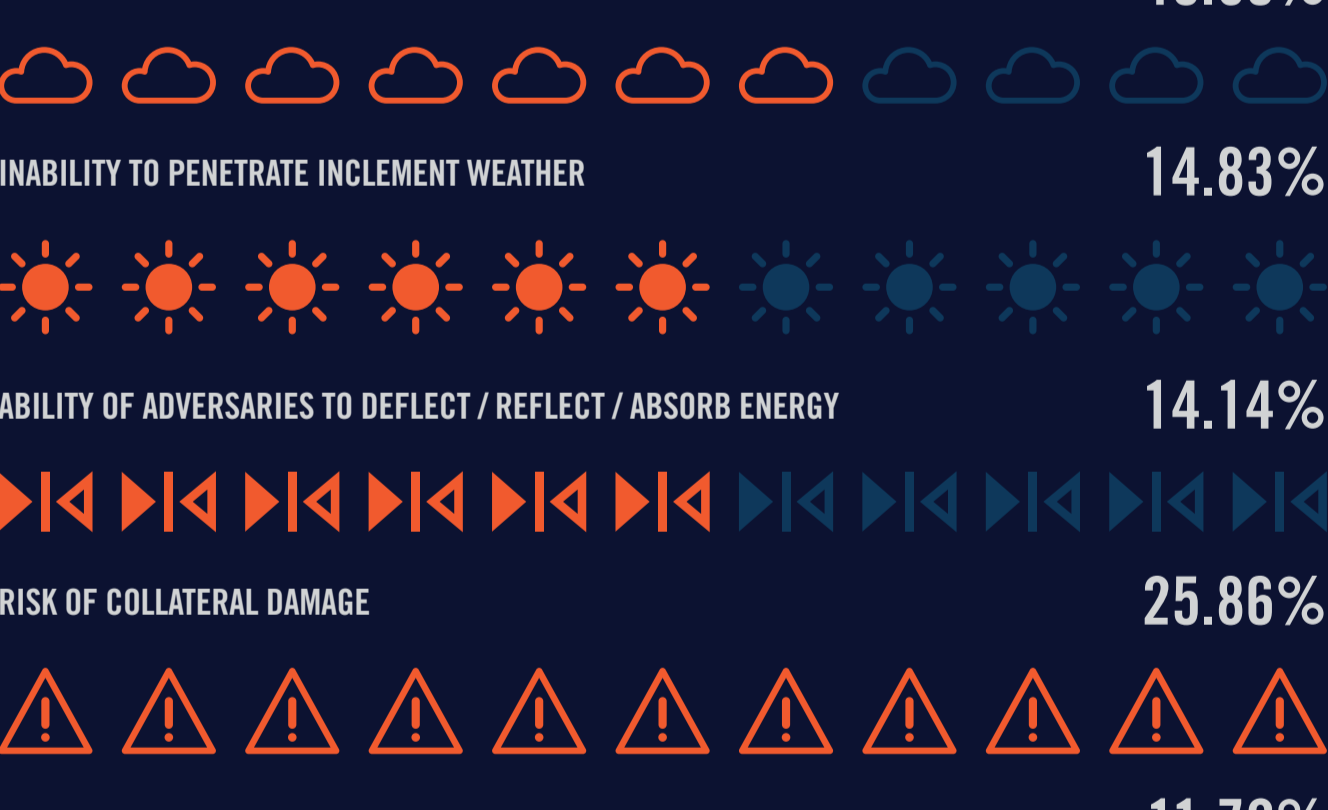
THERE WAS A BROAD RANGE OF INTEREST FROM OUR RESPONDENTS, WITH MILITARY SYSTEMS BEING OF LEADING INTEREST, PARTICULARLY OVER NON-LETHAL SYSTEMS.

OF THE FOLLOWING, AND TO THE BEST OF YOUR KNOWLEDGE, WHAT DO YOU FEEL ARE THE BIGGEST OBSTACLES FACING THE FIELD OF DIRECTED ENERGY SYSTEMS WHEN IT COMES TO ADVANCING THE TECHNOLOGY TOWARDS CUSTOMER USE?



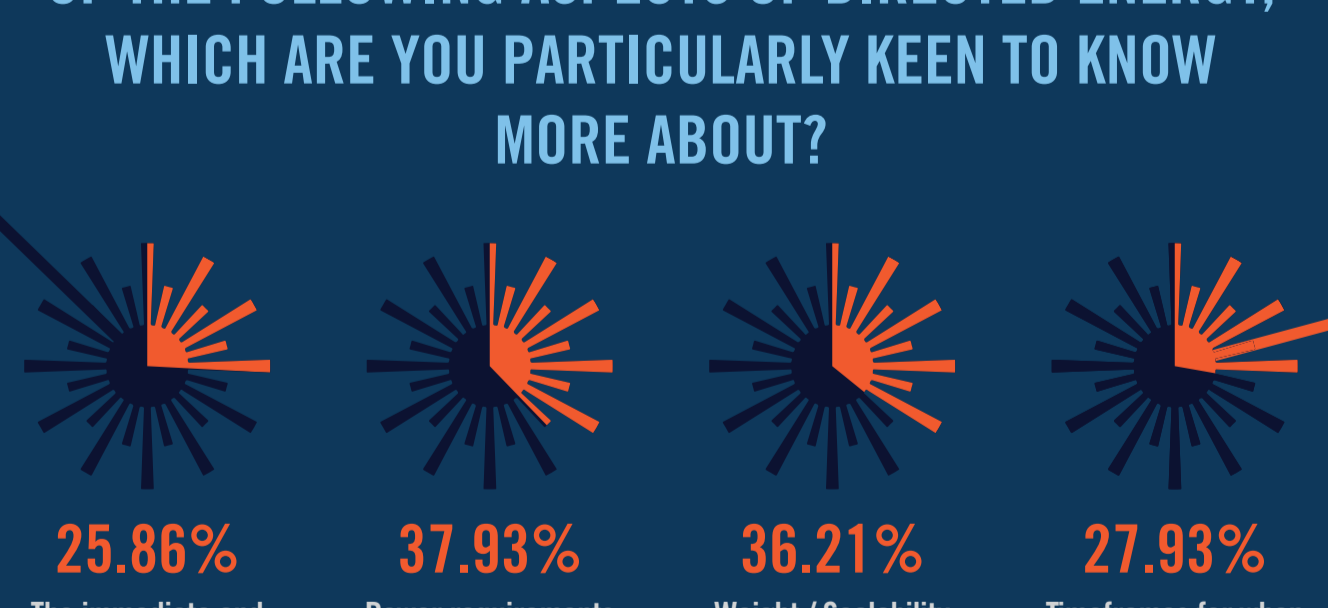
OF THE PERCEIVED DIRECTED ENERGY OBSTACLES LISTED, THE MOST FREQUENTLY MENTIONED CONCERN WAS THAT OF SAFETY CONCERNS FOR USERS (31.7%), FOLLOWED CLOSELY BY A 'LACK OF UNDERSTANDING' WHEN IT COMES TO BALANCING OR INTEGRATING DE SYSTEMS WITH CONVENTIONAL SYSTEMS – THE STAGE AT WHICH SEVERAL HIGH-END MILITARIES ARE CURRENTLY INVOLVED. ETHICAL AND LONG-TERM COST CONCERNS, WHILE STILL OF NOTE, ARE SEEN AS LEAST TROUBLESOME.

WHICH FORM OF DIRECTED ENERGY SYSTEMS (IF ANY) IS OF MOST INTEREST TO YOU AT PRESENT?



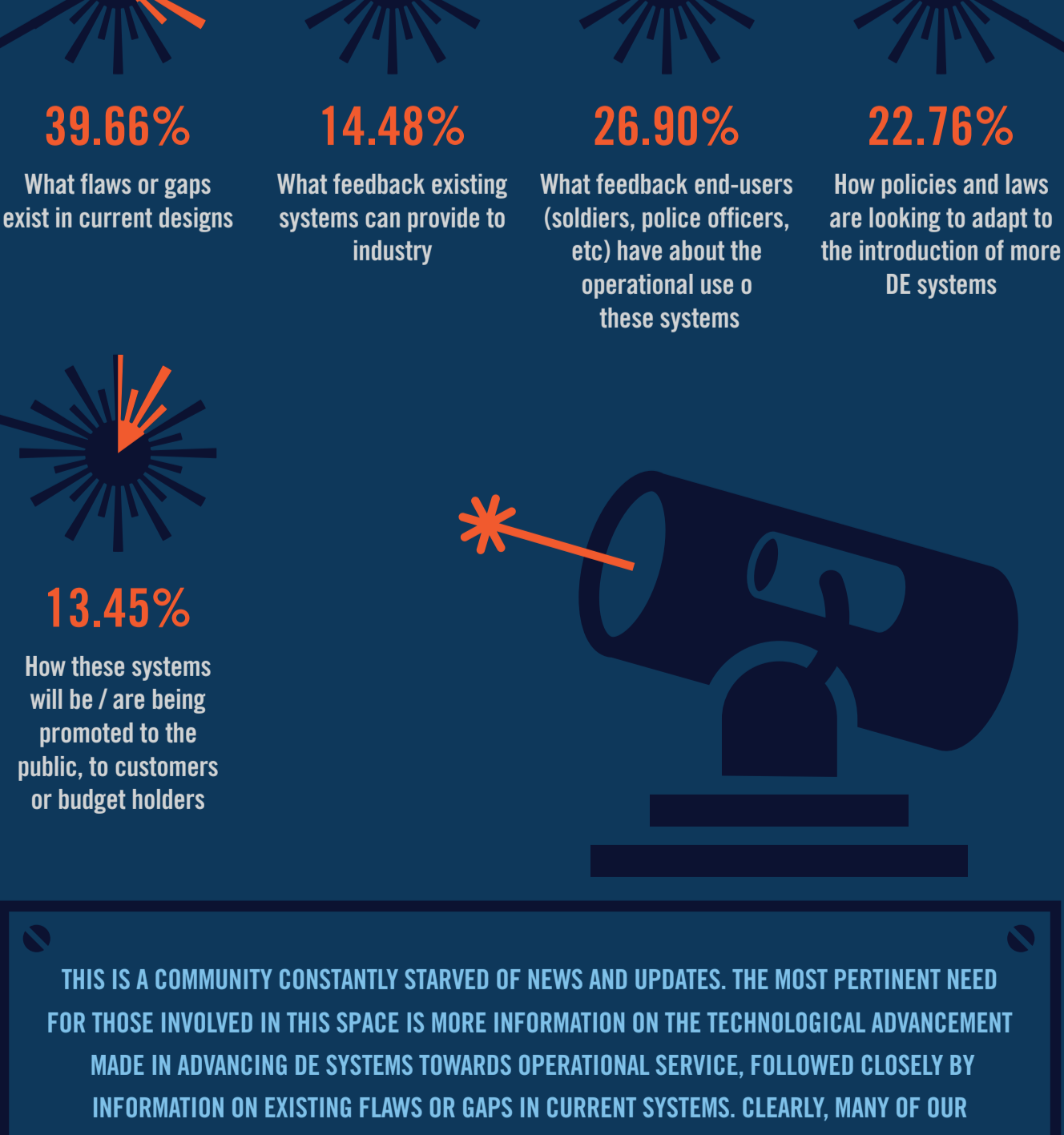
WHILE MANY OF OUR RESPONDENTS WERE NOT INTERESTED IN ONE 'NICHE' AREA OF DE DEVELOPMENT, A LARGE AMOUNT IDENTIFIED HEL AS BEING AT THE FOREFRONT OF THEIR ATTENTION.

ARE YOU CONCERNED ABOUT THE IMPLEMENTATION OF DIRECTED ENERGY SYSTEMS BY POTENTIAL ADVERSARIES IN THE NEXT 5 YEARS?



A WIDE MAJORITY OF RESPONDENTS ADMITTED TO BEING CONCERNED ABOUT THE IMPLEMENTATION OF DE SYSTEMS BY POTENTIAL ADVERSARIES IN THE NEAR FUTURE.

OF THE FOLLOWING TECHNOLOGICAL 'GAPS', WHICH DO YOU BELIEVE TO BE THE MOST IMPORTANT FOR MILITARY / SECURITY CUSTOMERS TO HAVE SOLVED BEFORE PURCHASING OR EMPLOYING DE SYSTEMS?



WHILE ANY PERCEIVED TECHNOLOGICAL GAP IS IMPORTANT TO REMEDY, OVER A QUARTER OF OUR RESPONDENTS BELIEVE THAT THE MITIGATION OF COLLATERAL DAMAGE IS THE TOP PRIORITY FOR DEVELOPERS TO RESOLVE BEFORE DE SYSTEMS ARE WIDELY DEPLOYED.

OF THE FOLLOWING ASPECTS OF DIRECTED ENERGY, WHICH ARE YOU PARTICULARLY KEEN TO KNOW MORE ABOUT?



THIS IS A COMMUNITY CONSTANTLY STARVED OF NEWS AND UPDATES. THE MOST PERTINENT NEED FOR THOSE INVOLVED IN THIS SPACE IS MORE INFORMATION ON THE TECHNOLOGICAL ADVANCEMENT MADE IN ADVANCING DE SYSTEMS TOWARDS OPERATIONAL SERVICE, FOLLOWED CLOSELY BY INFORMATION ON EXISTING FLAWS OR GAPS IN CURRENT SYSTEMS. CLEARLY, MANY OF OUR RESPONDENTS ARE NO LONGER SIMPLY LOOKING AT WHAT THE SYSTEMS COULD POTENTIALLY DO, BUT AT WHAT NEEDS TO BE IMPROVED TO ENHANCE THEIR EXISTING CAPABILITIES.

INTERESTED IN LEARNING MORE? INVOLVED IN THIS MARKET?

JOIN US AT

DIRECTED ENERGY SYSTEMS 2017

(21-23 FEBRUARY, 2017 - LONDON, UNITED KINGDOM)

WWW.DIRECTEDENERGYSYSTEMSEVENT.COM

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