

An aerial photograph of a large industrial facility, likely an oil refinery or chemical plant, situated on a peninsula. The facility features numerous storage tanks, distillation columns, and complex piping. A large green and white ship is docked at a long pier extending into the water. The surrounding landscape is arid and hilly.

CYBER ATTACK ON YOUR UMBILICALS SUT YES CYBER SECURITY EVENT

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Disclaimer and important notice



This presentation contains forward looking statements that are subject to risk factors associated with oil and gas businesses. It is believed that the expectations reflected in these statements are reasonable but they may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially, including but not limited to: price fluctuations, actual demand, currency fluctuations, drilling and production results, reserve estimates, loss of market, industry competition, environmental risks, physical risks, legislative, fiscal and regulatory developments, economic and financial market conditions in various countries and regions, political risks, project delay or advancement, approvals and cost estimates.

All references to dollars, cents or \$ in this presentation are to US currency, unless otherwise stated.

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- Current, real and ever increasing threat
- What is OT?
- OT cyber security strategy

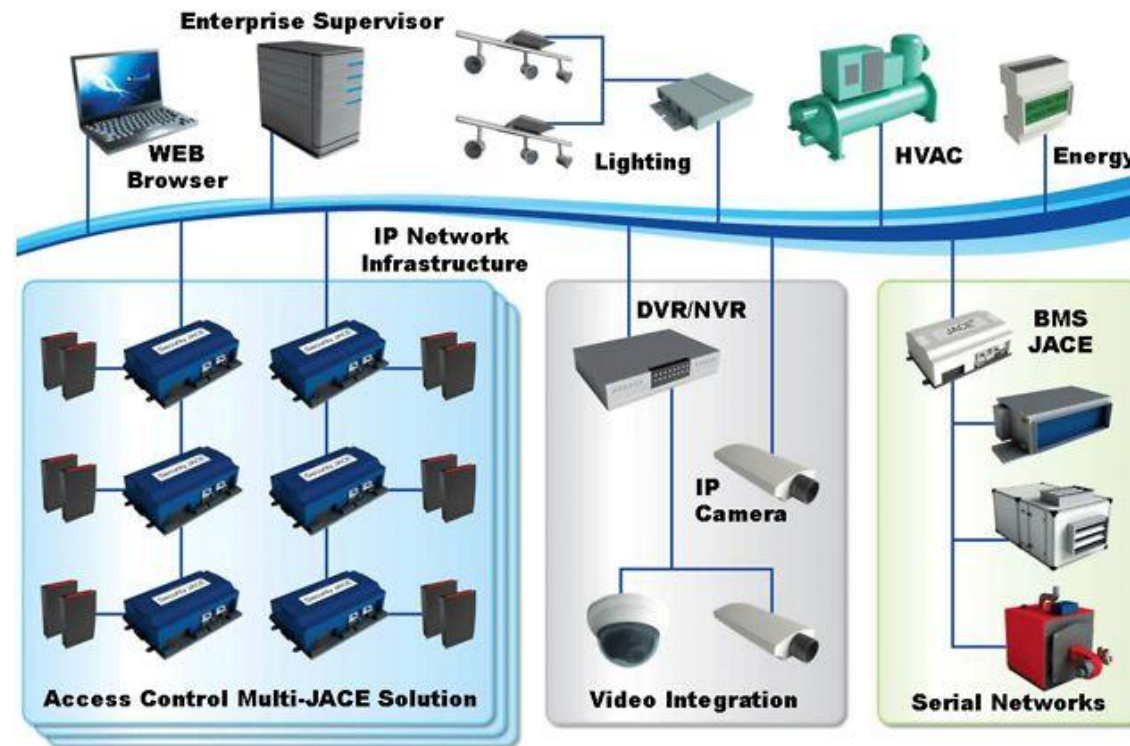
Cyber Security in the Media – Hacking into IT Systems



Cyber Security in the Media – Hacking into OT Systems

Operational Technology (OT) - ISA99

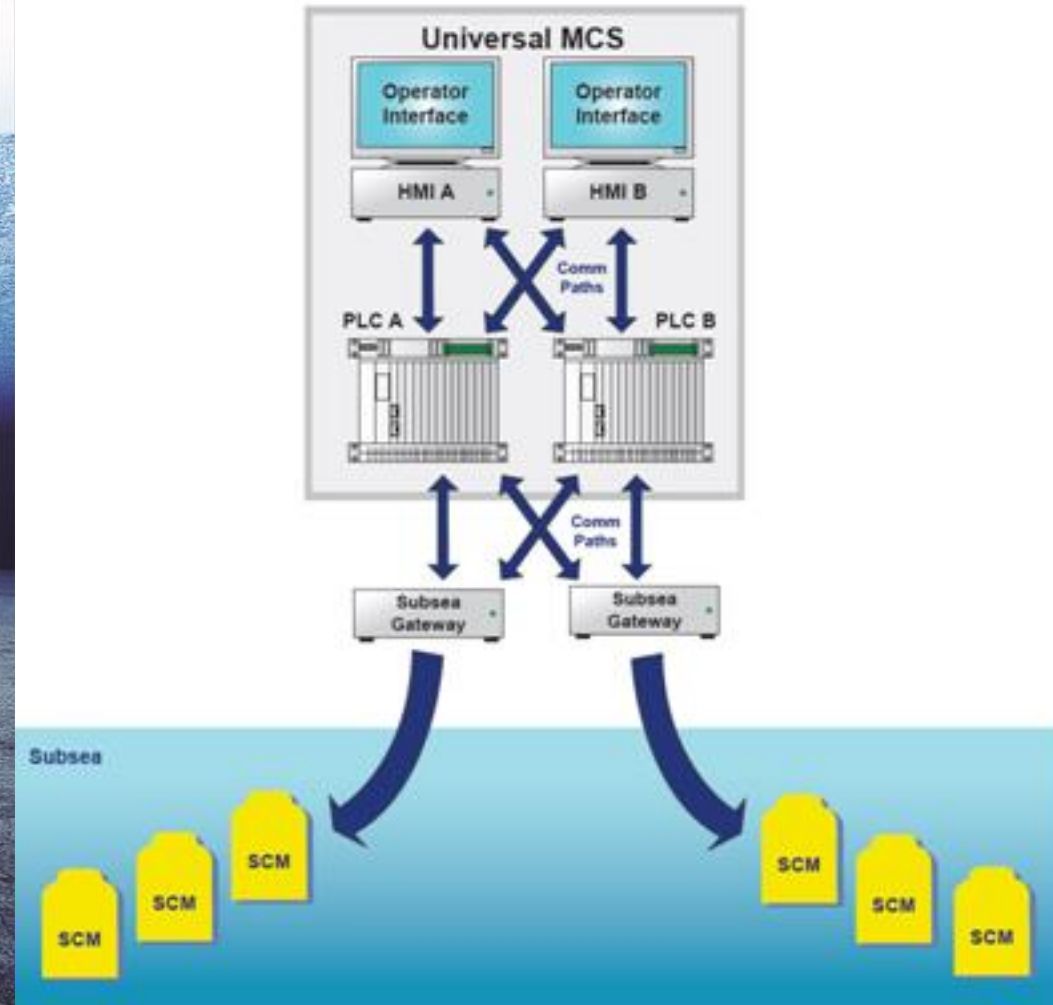
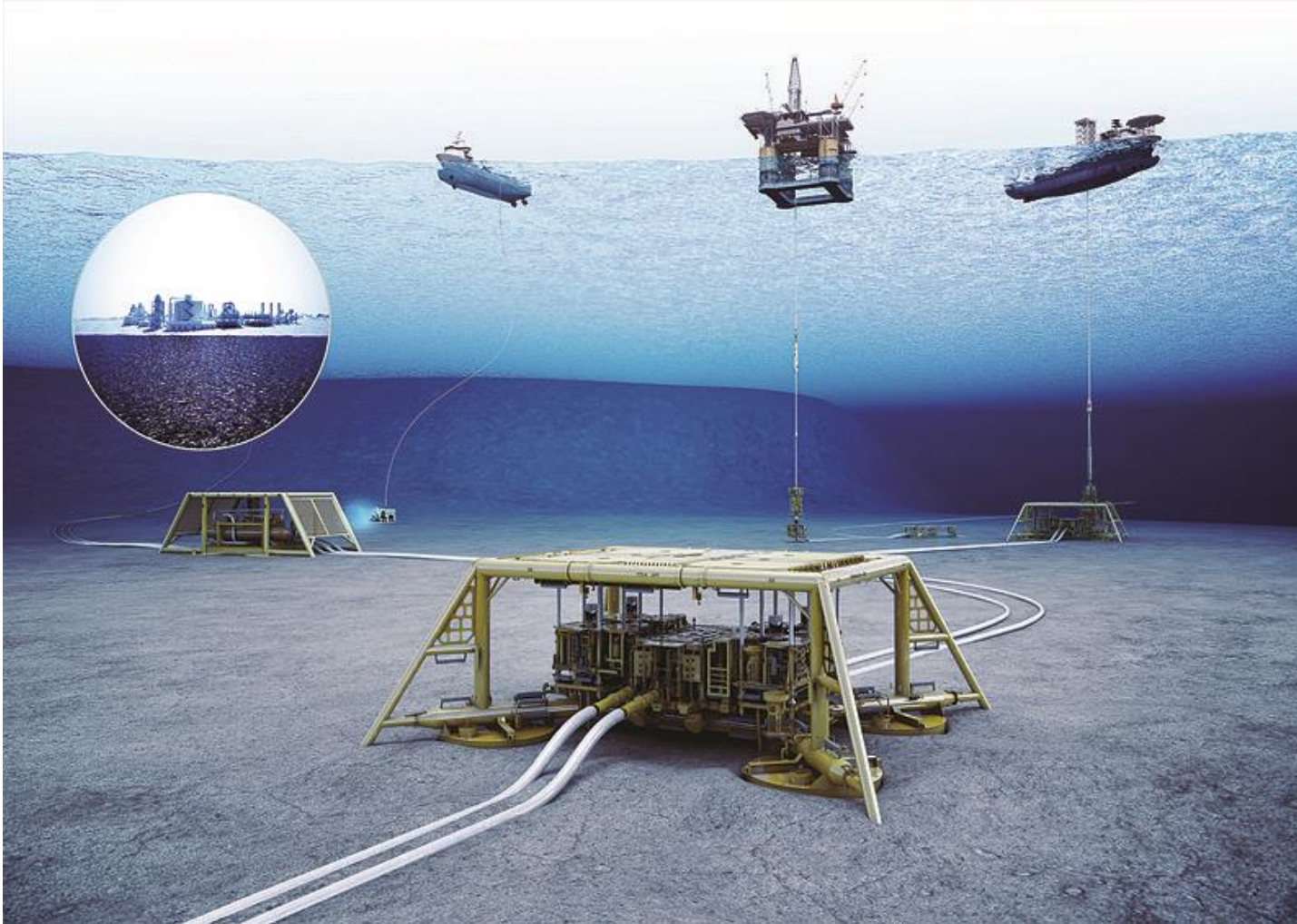
“A collection of personnel, hardware, and software that can affect or influence the safe, secure, and reliable operation of an industrial process”





[Ukraine Power Hack Attacks](#)

Subsea System – What are the potential vulnerabilities?





- Deploy governance across OT systems
- Apply minimum design and engineering standards within OT environment
- Align with industry standards
- Develop and engage the skills to support our operations teams
- Support new projects

- Cyber Security threat is real
- Defence in depth via multiple layers of protection required
- All systems (including subsea systems) must be designed to be secure



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THANK YOU

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FROM '._DB_PREFIX_' level_depth, slef, ...  
WHERE id_category = $id  
function getPath($urlBase  
    ($n < $nCategories ? '<a href="' . $ur  
category='.(int)$c  
span class="high  
if (isset($category) && ($highlight) ? str_ireplace  
{  
    ($n < $nCategories ? '</a>' : '')  
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SELECT q.id_category, c1.name, c1.name_reverse  
FROM '._DB_PREFIX_' category c  
LEFT JOIN '._DB_PREFIX_' category_lang cl ON (cl.id_category = c.id  
WHERE c.nleft <= '.(int)$category/(int)$n AND c.nright >= '.(int)$n  
ORDER BY c.level_depth ASC  
LIMIT '.(int)$limit'  
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} $fullPath = '';  
elseif ($categoryType == 'cms')  
{  
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            ($n < $nCategories ? '</a>' : '');  
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            $edit = '<a href="' . $urlBase . $category->url . '</a>';  
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```



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