



WORLD INSTITUTE FOR
NUCLEAR SECURITY

Strategic Outcomes for Nuclear Security 2020

Dr. Roger Howsley
Executive Director

Nuclear Industry Summit, Washington DC, 30th March 2016

Outline

- **WINS Update**
- **Strategic Outcomes**
- **The WINS Academy**
- **Conclusions**



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WINS Foundation 2008



“WINS fills an urgent gap in our need to strengthen the nuclear security system.”

WINS Mission

To be the leader in professional development and certification for nuclear security management



WINS' Achievements

65

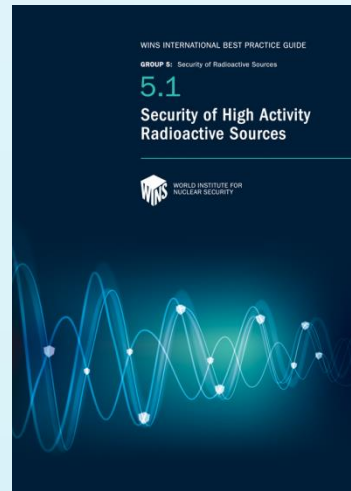
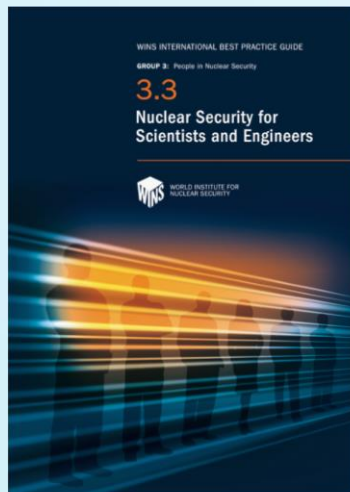
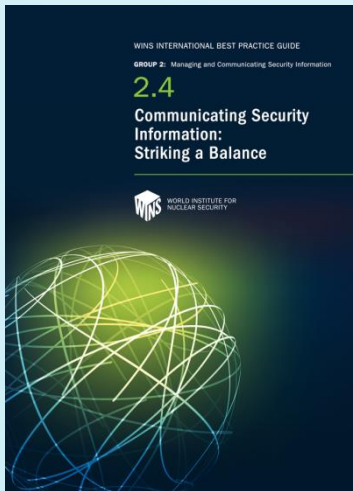
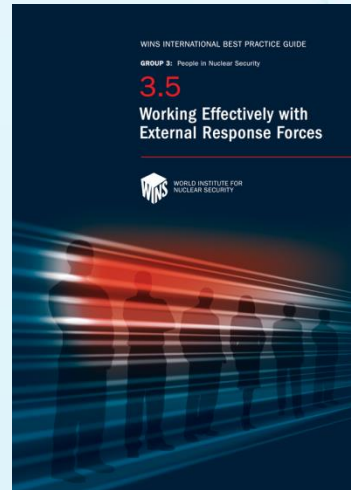
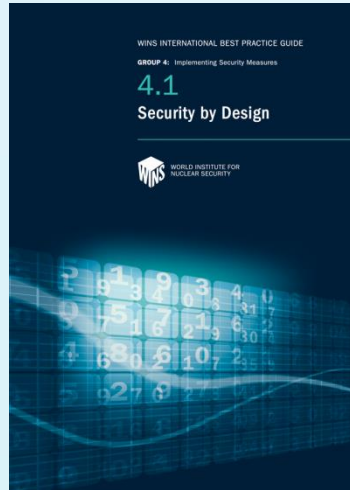
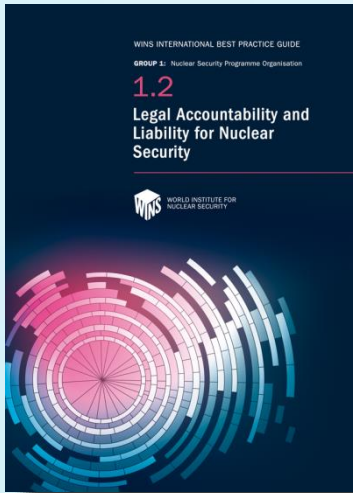
**International
Best Practice
Workshops and
Roundtables**

36

**International
Best Practice
Guides
Published**



International Best Practice Guides



Website with Interactive Member's Area



Facilitated Workshops Using Innovative Techniques



WINS Workshops



**AN EVENT EVERY
FIVE WEEKS**

ARGENTINA
AUSTRIA
BELGIUM
BRAZIL
CANADA
FRANCE
GERMANY
GREECE
LITHUANIA
JAPAN
JORDAN
KOREA
MEXICO
NIGERIA
PHILIPPINES
SOUTH AFRICA
SWEDEN
THE NETHERLANDS
UNITED ARAB EMIRATES
UNITED KINGDOM
USA

WINS Membership Growth



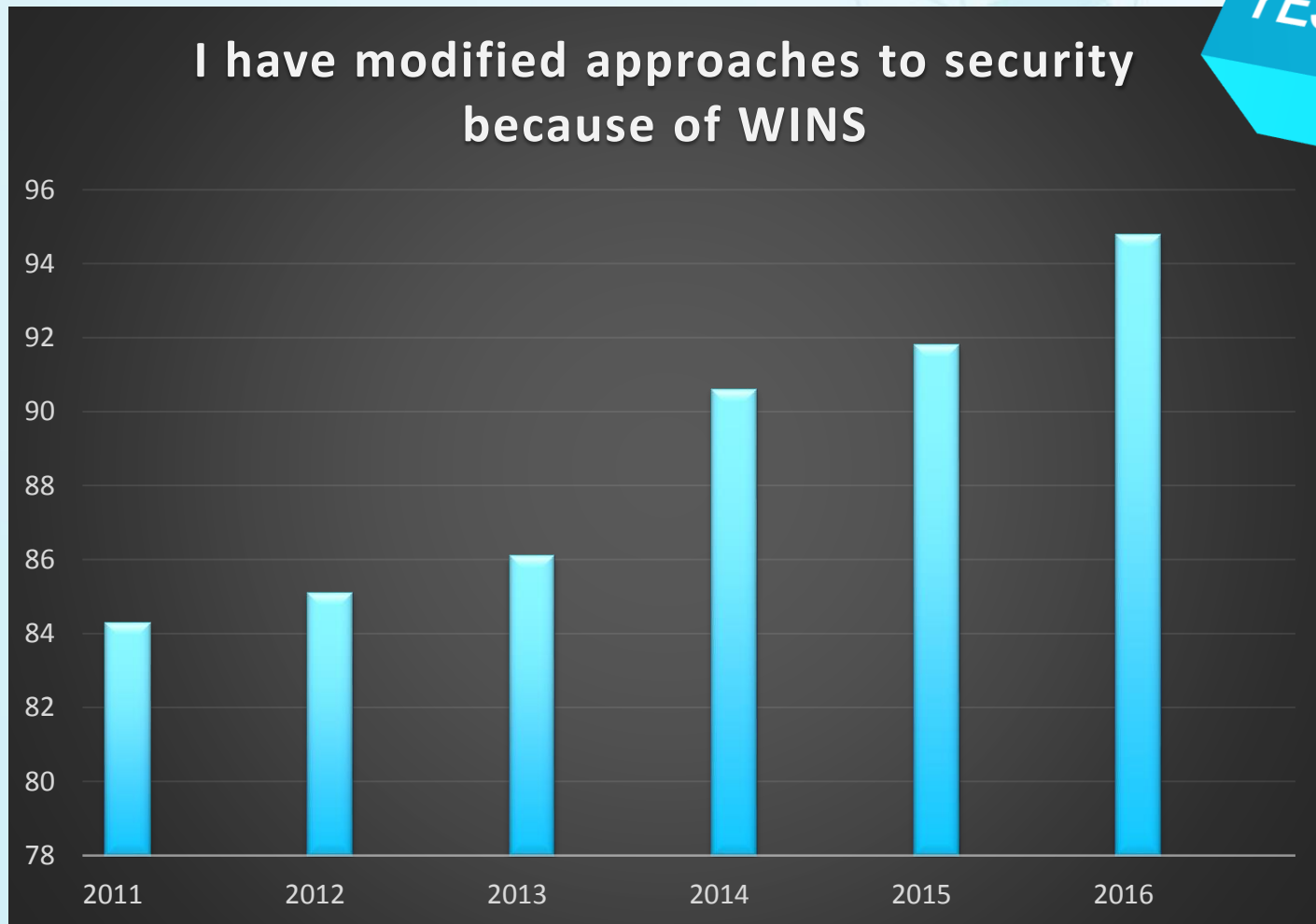
3,100 Members
in 114 countries

as of December 31, 2015

WINS Membership Survey 2015-16

I benefit from WINS Membership.	97% agree
WINS is a valuable forum.	99% agree
The WINS guides are effective for self-assessment.	98% agree
The WINS guides cover relevant topic.	99% agree
Publishing the guides in different languages is important.	98% agree
Attending a WINS workshop was time well spent.	97% agree
WINS workshops are innovative.	98% agree
I have modified approaches to security because of WINS.	95% agree
The WINS website is useful.	99% agree
My interactions with WINS are dealt with professionally.	98% agree

Membership Questionnaire



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Annual Report 2016



Strategic Outcomes 2020

- 1** Demonstrable competence increasingly becomes a licensing requirement for personnel with accountabilities for nuclear security, including the regulatory requirement for professional certification of key nuclear security management positions.
- 2** The IAEA's nuclear security programme promotes structured professional development and voluntary certification, and the IAEA has entered into joint nuclear security certification programmes with training institutes, including WINS.
- 3** An increasing number of organisations, including regulators, operators, police and responsible government departments, publish meaningful governance reports about the corporate oversight of their security programmes.
- 4** An effective, sustainable international industry forum is operating that implements the recommendations and commitments made during the Nuclear Industry Summits.
- 5** Some countries have established a peer review programme for nuclear security management practices that involves nuclear operators and related organisations, and it is growing in scope and frequency.
- 6** Similar to nuclear safety, nuclear security is increasingly seen as a strategic issue for nuclear-related organisations rather than as a regulatory burden.
- 7** Security programmes are subject to the business disciplines of effectiveness (performance tested) and efficiency, and security regulations are performance-based.
- 8** Nuclear safety and security continue to coalesce, and more of the nuclear safety-related disciplines and management attitudes are being used to enhance nuclear security.
- 9** Cybersecurity and physical protection arrangements are properly integrated as part of an all-risks approach to the security programme.
- 10** High quality nuclear security workshops, events and related best practice guides are being implemented, including new ISO publications, and professionally-facilitated meetings are the norm in the sector.

Strategic Outcomes



1

Demonstrable competence increasingly becomes a licensing requirement for personnel with accountabilities for nuclear security, including the regulatory requirement for professional certification of key nuclear security management positions.

Nuclear Security Summit 2014



Joint Statement

The following States: Algeria, Armenia, Australia, Belgium, Canada, Chile, Czech Republic, Denmark, Finland, France, Georgia, Germany, Hungary, Israel, Italy, Japan, Kazakhstan, Lithuania, Mexico, Morocco, the Netherlands, New Zealand, Norway, Philippines, Poland, the Republic of Korea, Romania, Spain, Sweden, Turkey, Ukraine, United Arab Emirates, the United Kingdom, the United States of America and Vietnam, aiming for an effective and sustainable nuclear security regime, commit themselves to:

1. **Subscribe to the fundamental principles** ("Nuclear Security Fundamentals") set forth in the Nuclear Security Series NSS 20, on the Objective and Essential Elements of a State's Nuclear Security Regime;
2. **Meet the intent of the recommendations** contained in the following documents and to realize or exceed these objectives including through the implementation and enhancement of national regulations and other government measures:
 - a) NSS13 (INFCIRC225/Rev.5): "Nuclear Security Recommendations on Physical Protection of Nuclear Materials and Nuclear Facilities";
 - b) NSS14: "Nuclear Security Recommendations on Radioactive Material and Associated Facilities" and The Code of Conduct on the Safety and Security of Radioactive Sources;
 - c) NSS15: "Nuclear Security Recommendations on Nuclear and Other Radioactive Material out of Regulatory Control";
3. **Continue to improve the effectiveness** of their nuclear security regimes and operators' systems by
 - a) Conducting self-assessments;
 - b) Hosting peer reviews (e.g., IPPAS) periodically;
 - c) Acting upon the recommendations identified during these reviews;
4. **Ensure that management and personnel with accountability for nuclear security are demonstrably competent;**

Additionally, subscribing States intend to contribute to the continuous improvement of nuclear security through one or more of the following actions:

“Ensure that management and personnel with accountability for nuclear security are demonstrably competent”



NSS in Washington

2014

Nuclear Industry Summit 2014



JOINT STATEMENT OF THE 2014 NUCLEAR INDUSTRY SUMMIT

Amsterdam - March 23-24, 2014

Beurs van Berlage



Ensuring that all personnel with accountabilities for security are demonstrably competent by establishing appropriate standards for selection, training, and certification of staff

Nuclear Security Summit 2016

1

**NUCLEAR
SECURITY
SUMMIT**

WASHINGTON 2016



[HOME](#) / [ABOUT NSS](#) / [NSS 2016](#) / [NEWSROOM](#)

Joint Statement on Certified Training for Nuclear Security Management

2016 Nuclear Security Summit in Washington D.C.

Introduction

Gathered in Washington D.C. on the occasion of the fourth Nuclear Security Summit, the leaders of Canada, the Netherlands, New Zealand, Norway, the United Kingdom and the United States welcome

The IAEA's nuclear security programme promotes structured professional development and voluntary certification, and the IAEA has entered into joint nuclear security certification programmes with training institutes, including WINS.

Strategic Outcomes

2



INTERNATIONAL CIVIL AVIATION ORGANIZATION
A United Nations Specialized Agency

The **Aviation Security Professional Management Course (PMC)** is the most advanced certified aviation security training programme in existence today. Its aim is to provide middle and senior management personnel with new management skills and a greater understanding of the application of the ICAO Standards and Recommended Practices. These have become mandatory in today's aviation environment, as aviation security management personnel are required to perform more complex and diverse tasks and display greater communicative and management skills to meet new and emerging threats to civil aviation.

Strategic Outcomes

3

An increasing number of organisations, including regulators, operators, police and responsible government departments, publish meaningful governance reports about the corporate oversight of their security programmes.

CORPORATE GOVERNANCE ARRANGEMENTS FOR NUCLEAR SECURITY:

**Analysis of Annual Reports from
Regulators and Operators**

CORPORATE GOVERNANCE ARRANGEMENTS FOR NUCLEAR SECURITY:

Analysis of Annual Reports from Regulators and Operators

NSS PARTICIPATING STATES	REGULATORS	OPERATORS
ANNUAL REPORT	47%	89%
SECURITY GOVERNANCE	28%	9%

An effective, sustainable international industry forum is operating that implements the recommendations and commitments made during the Nuclear Industry Summits.

An effective, sustainable international industry forum is operating that implements the recommendations and commitments made during the Nuclear Industry Summits.

WORK IN PROGRESS

Some countries have established a peer review programme for nuclear security management practices that involves nuclear operators and related organisations, and it is growing in scope and frequency.

Strategic Outcomes



5

The combined budget of WANO and INPO is bigger than the entire budget of the IAEA. That is how much the nuclear industry prioritizes peer review to achieve safety and operational excellence.

But this excludes security peer review.

Similar to nuclear safety, nuclear security is increasingly seen as a strategic issue for nuclear related organisations, rather than a regulatory burden

Strategic Outcomes

6

WINS INTERNATIONAL BEST PRACTICE GUIDE

GROUP 1: Nuclear Security Programme Organisation

1.4

Nuclear Security Culture

Revision 3.0



INPO[®]

Traits of a Healthy Nuclear Safety Culture



Security programmes are subject to the business disciplines of effectiveness (performance tested) and efficiency, and security regulations are performance-based.

Nuclear safety and security continue to coalesce, and more of the nuclear safety-related disciplines and management attitudes are being used to enhance nuclear security.

Strategic Outcomes

8

STAKEHOLDER PERSPECTIVE – INDUSTRY

“I support a collaborative relationship between our organisations and see a strong similarity in our process of gathering and sharing best practice amongst our members.”



PETER PROZESKY, CEO, World Association of Nuclear Operators

Cybersecurity and physical protection arrangements are properly integrated as part of an all-risks approach to the security programme.

Strategic Outcomes

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The screenshot shows the U.S. Nuclear Regulatory Commission (NRC) website. At the top left is the NRC logo with the text "U.S. NRC" and "United States Nuclear Regulatory Commission" below it, followed by the tagline "Protecting People and the Environment". To the right of the logo is a search bar with a "SEARCH" button. Below the search bar is a yellow button that says "REPORT A SAFETY CONCERN" with a red star icon. A navigation menu is located below these elements, with buttons for "NUCLEAR REACTORS", "NUCLEAR MATERIALS", "RADIOACTIVE WASTE", "NUCLEAR SECURITY", "PUBLIC MEETINGS & INVOLVEMENT", "NRC LIBRARY", and "ABOUT NRC". In the bottom right corner of the navigation area is a "PRINT" button with a printer icon. Below the navigation menu is a breadcrumb trail: "Home > NRC Library > Document Collections > NRC Regulations (10 CFR) > Part Index > § 73.54 Protection of digital computer and communication systems and networks."

§ 73.54 Protection of digital computer and communication systems and networks.

“the licensee shall review the cyber security program as a component of the physical security program...”

High quality nuclear security workshops, events and best practice guides are being implemented, including new ISO publications, and professionally-facilitated meetings are the norm for the sector.

Strategic Outcomes



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The WINS Academy



THE WINS ACADEMY IS NOW ONLINE

Become a certified nuclear security professional

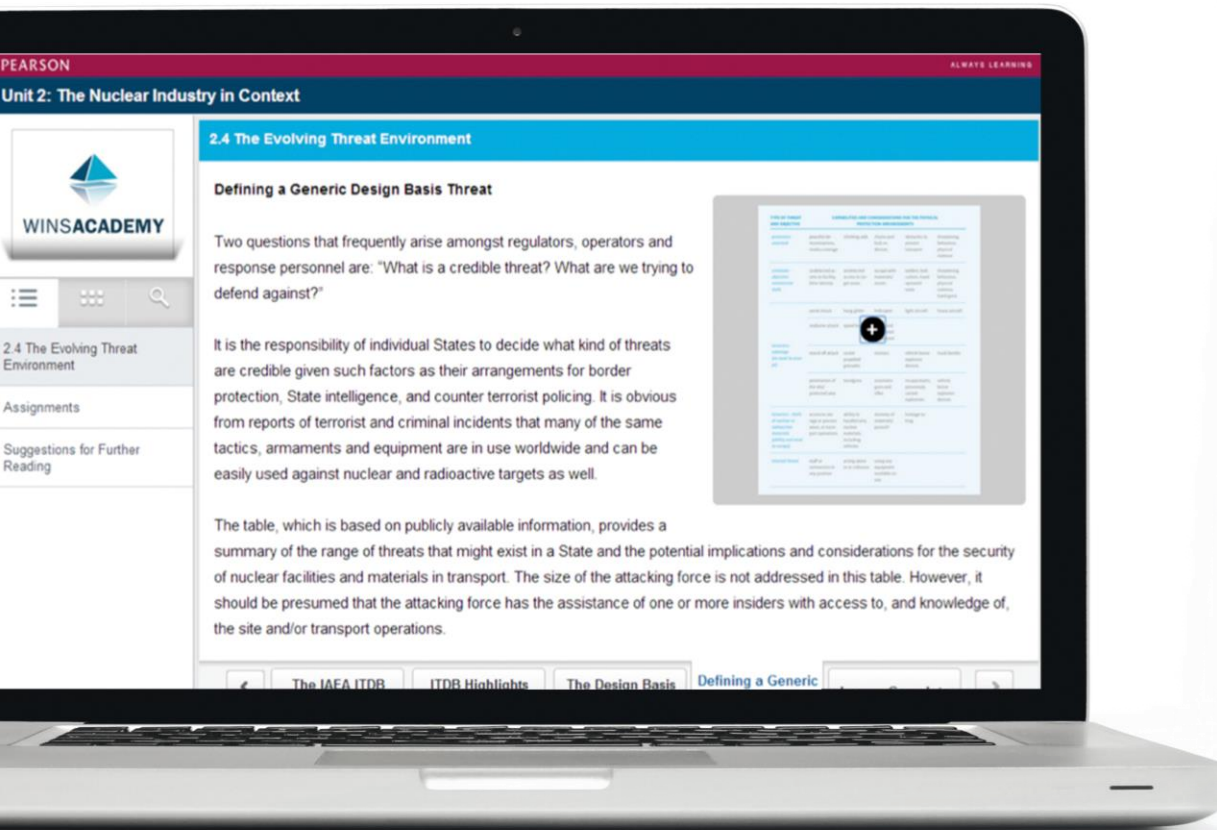
[SIGN UP NOW!](#)

[LEARN MORE](#)

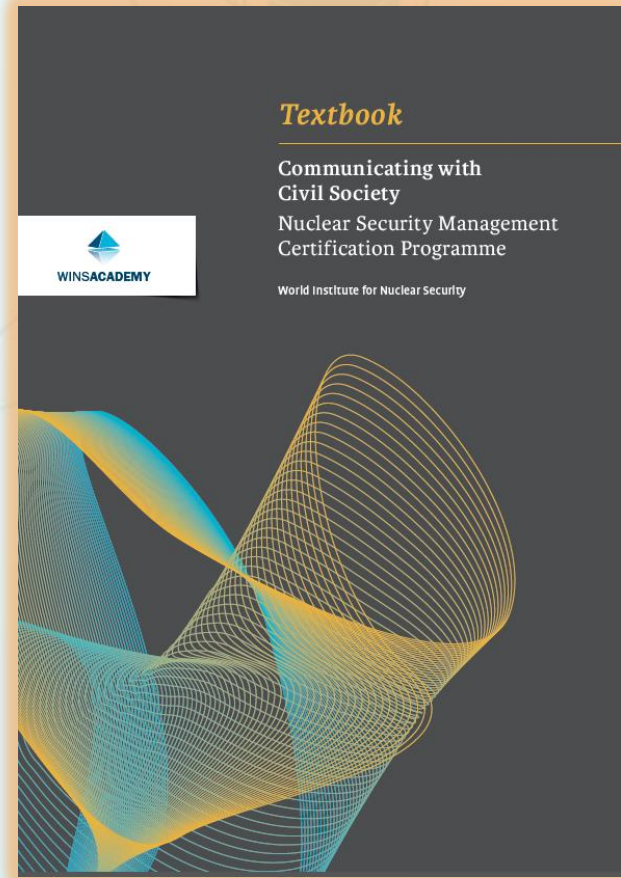
The WINS Academy : Key Roles



Delivering Training Curriculum



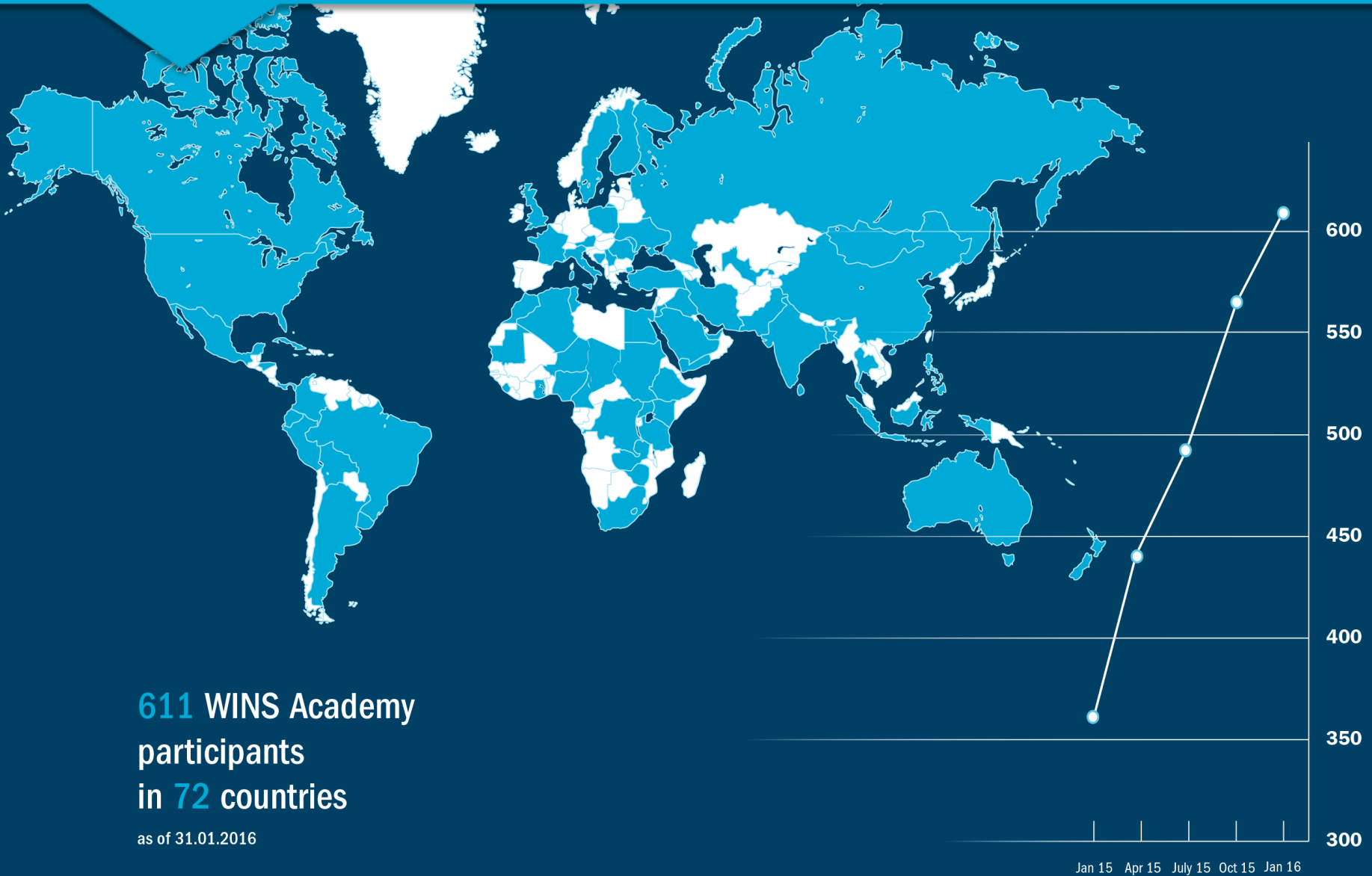
Foundation Course + Elective



Academy Participation



WINSACADEMY



611 WINS Academy participants in **72** countries

as of 31.01.2016



First Academy Graduates



124 Graduates
from
28 Countries



Graduate Experiences

“With the WINS Academy Elective for Executive Managers, I learned a lot. Surely security is not one subject that can be isolated. Security is not only guards and guns, it shall always be considered part of an integrated security programme for business success. Taking the Elective course and getting the certification will surely benefit our career, but most importantly it helps us better contribute to our organisations’ daily operations and communications.”

**Lijun Liu,
AREVA ASIA**





WINS Academy Graduate



Mr. Maleka

Physical Security Manager
South African Nuclear Energy
Corporation (NECSA)

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Conclusions

- **Get involved with WINS for the benefit of the entire industry,**
- **Make use of the WINS Academy for the benefit of your organisation and staff, and encourage professional certification,**
- **Benchmark your organisation's performance against the 10 Strategic Outcomes,**
- **Encourage dialogue and peer review,**
- **Report your corporate governance arrangements,**
- **If you need help, please ask.**



Thank you

WEBSITE

www.wins.org

Email

roger.howsley@wins.org

