



Marine Safety – The New Wave



RDIMS #6676932



Presentation Outline

- Overview of Transport Canada
- Overview of Marine Safety
- Contextual Challenges
- Accomplishments
- Key Planning and Performance Tools
- Marine Safety Planning and Performance Challenges
- Moving Forward



Overview of Transport Canada



Transport Canada

Transport Canada is responsible for the Government of Canada's transportation policies and programs. The Department has the added responsibility, under the *Canada Transportation Act*, to monitor the ongoing health of the national transportation system.

Resources

Appropriation (2010/11) – \$1,883 M

Employees (2010/11) – 5,360

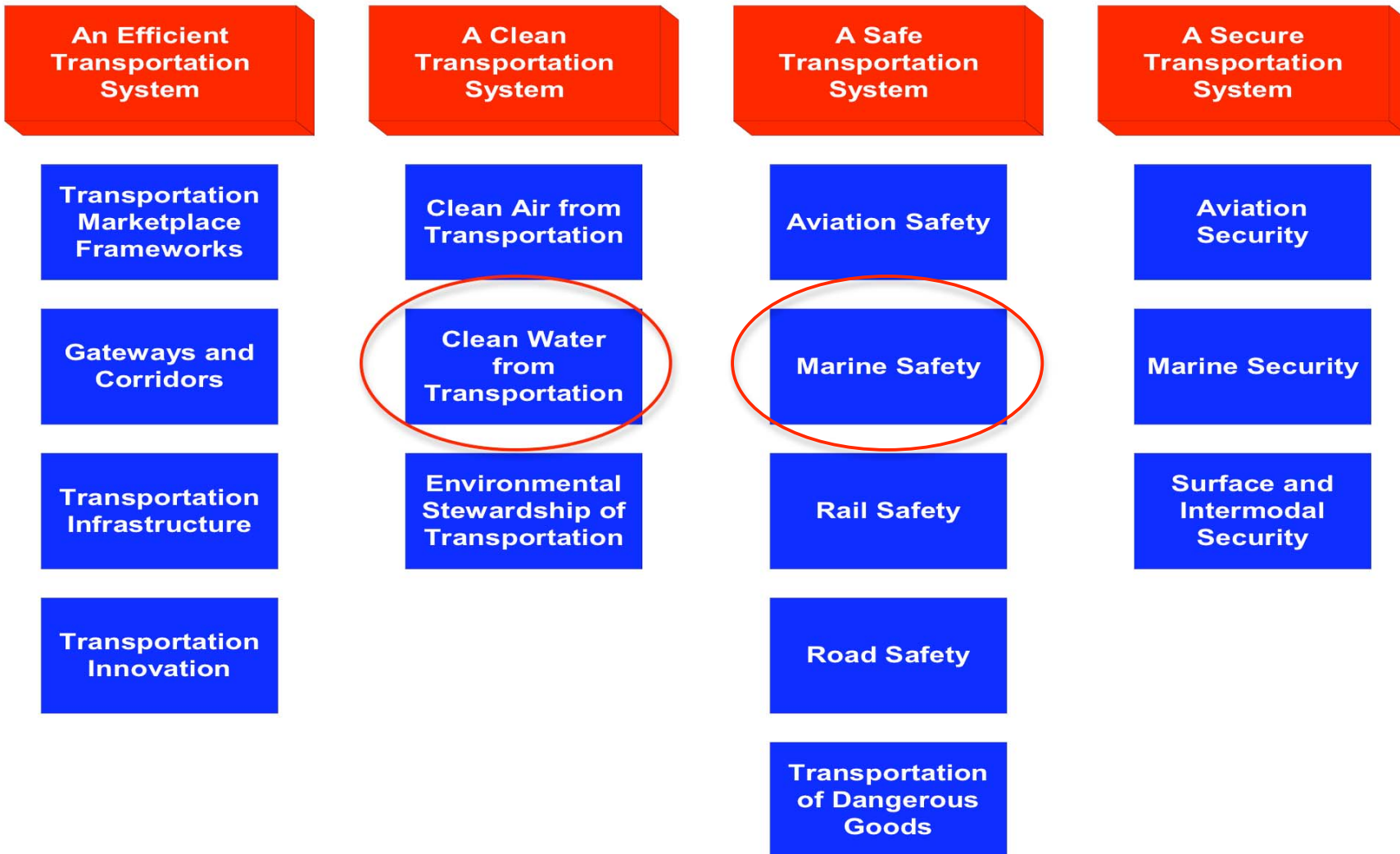
The Strategic Outcomes of Transport Canada

- an **efficient** transportation system;
- a **clean** transportation system;
- a **safe** transportation system; and
- a **secure** transportation system.

Source: TC RPP 2010-2011



TC's PAA-Strategic Outcomes & Program Activities





Overview of Marine Safety



Resources Snapshot

Employees: Approx. 620 employees including 188 in HQ

Operating budget: Approx. \$75 million

Revenues: Approx. \$7.5 million



Mandate

- Develop and enforce a safety and environmental protection framework for all segments of the domestic and foreign marine industries as well as the recreational boating community
- Protect the public right to navigation with navigational waters in Canada by collaborating with partner organizations



What We Do

Develop, administer and enforce national and international laws and policies governing marine safety and the protection of the marine environment

Deliver an internal technical training program to Marine Safety's inspector community

Promote safe practices and procedures

Deliver prevention-based programs to promote small vessel/recreational boating safety

Develop and maintain regulations, examinations and training standards for the certification of seafarers

Conduct research in the marine transportation sector

Respond to marine occupational safety and health issues

Administer the navigable waters protection program

Maintain a Canadian vessel registry

Oversee pilotage matters



Marine Safety in Today's World

- Increased globalization
- Trade barriers dropping
- More international cooperation to promote trade

The world is getting smaller →



Marine Safety in Today's World

More global trade = more shipping

More Arctic shipping/oil
and gas exploration

More vigilance needed
to prevent accidents
given evolving risks





Contextual Challenges



Moving Toward a Risk-Based Inspection Regime





Promoting Boating Safety





Arctic Shipping Safety





International Agreements and Maritime Borders



Environmental Issues

- Ship-source oil spill preparedness and response regime and development of a Hazardous and Noxious Substances (HNS) regime as per CESD report recommendations
- Greenhouse gas (GHG) emissions reduction





Resources Restraints





What We Must Do

Focus on activities that will accelerate change



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Accomplishments



What We Have Done in the Past Two Years

- Ratified 11 international maritime conventions
- Published 45 regulations
- Adopted the North American Emission Control Area
- Assisted with the modernization of the *Navigable Waters Protection Act*
- Amended the *Arctic Waters Pollution Prevention Act*
- Developed various planning and performance management tools

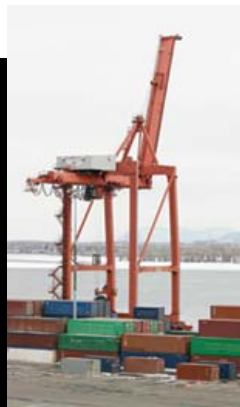


Key Planning and Performance Tools



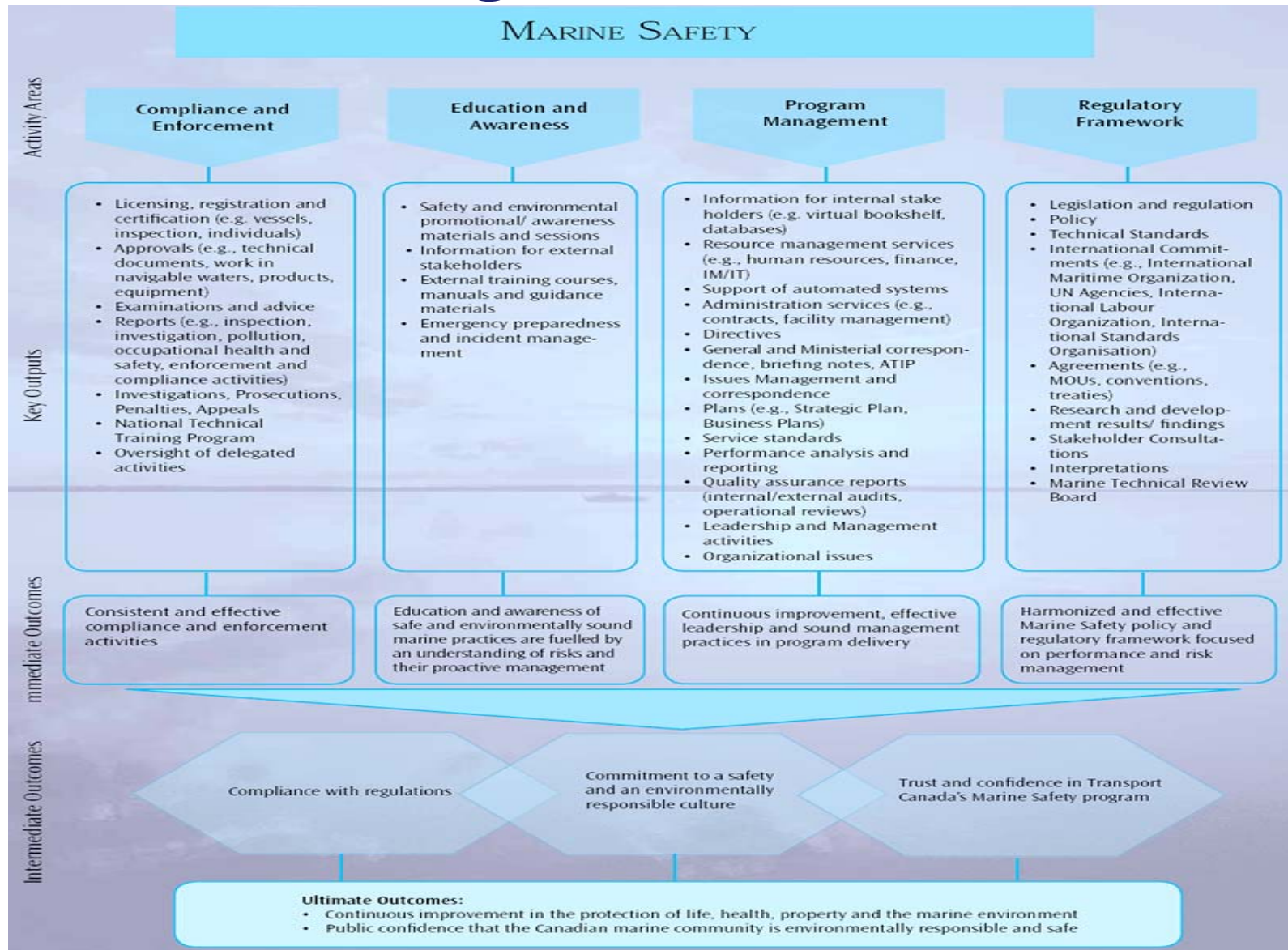
Marine Safety Strategic Plan 2009-2015

The New Wave





Logic Model





Integrated Business Plan 2010-11 to 2012-13 – Snapshot

SECTION II – ENVIRONMENTAL SCAN

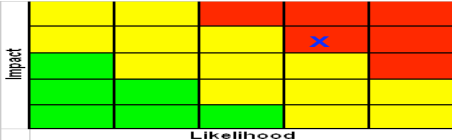
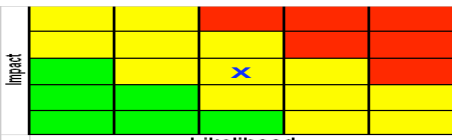
External Focus : The following table provides information on external circumstances that could be an opportunity and/or a threat for the successful delivery of the Marine Safety Program.

Opportunities	Threats
<p><u>Government - Safety Management Systems</u></p> <ul style="list-style-type: none"> One of Marine Safety's key evolving strategic directions to help manage threats to the successful delivery of its programs as well as further enhance transportation safety is the implementation of safety management systems (SMS). SMS involves building strong alliances and sharing the responsibility of safety with the industry, as well as building a strong safety culture through enhanced safety promotion and education. Under SMS, risk must be systematically managed to acceptable levels. Under SMS, Marine Safety will be working more closely and cooperatively with the marine industry and special interest groups than ever before and this will provide vital increased opportunities to build new or strengthen existing relationships in the industry, as well as promote and educate the industry with regard to safe practices. These close alliances with industry will also place Marine Safety in a position to positively influence any innovations, while they are being developed, to help ensure they are done with safety, environmental protection and risk management in mind, as well as preserve the health and well being of mariners. <p><u>Government - Management Agenda</u></p> <ul style="list-style-type: none"> The federal government's management agenda calls for more transparency, accountability and reporting on performance and results, which necessitates the enhancement and evolution of a range of new and existing information systems and systems of internal management and control. While challenging to implement, new and appropriate management information, systems and controls will support consistent delivery of responsibilities and informed decision-making that will enable Marine Safety to evolve and institutionalize new managerial and program directions and respond to central agency requirements. Implementation of both SMS and the government's management agenda will also provide for much more public visibility to the work of Marine Safety and how well the industry is performing in terms of safety. It is expected that over time these efforts will bring the public's 	<p><u>Public Confidence</u></p> <ul style="list-style-type: none"> Public attitudes are changing and are less tolerant of accidents and incidents on waterways — public expectations are getting higher. The latest statistics on the public's perception about the safety and security of marine travel reveal that public confidence has diminished. In August 2002, 54% of respondents felt that marine transportation was extremely safe and secure. In February 2007, 43% of respondents had this perception. Interestingly, public perception decreased while over the same period the overall safety record improved — in 2007 a record low was recorded for Canadian vessel shipping accidents and accidents aboard ship for the fourth consecutive year. This situation highlights that public perception and reality are not necessarily congruent with one another i.e. an improved safety record, on to itself, is not necessarily enough to instill increased public confidence. Over the planning period there will be increased pressure from the public for Marine Safety to do more in support of marine safety. More emphasis needs to be placed on communicating the work being done and results being achieved. <p><u>Government – New Legislation</u></p> <ul style="list-style-type: none"> In recent years, Marine Safety has undergone numerous and significant changes to its legislative roles and responsibilities. The marine community in Canada is now working under a new regulatory regime. The new <i>Canada Shipping Act, 2001</i>, which came into effect in July 2007, replaces the longstanding <i>Canada Shipping Act</i> as the principle legislation governing safety in marine transportation and recreational boating, as well as protection of the marine environment. Policy and regulatory responsibilities previously under the Department of Fisheries and Oceans (DFO) have also now been transferred to Transport Canada. Marine Safety is thus in a state of considerable operational and cultural transformation that is dramatically changing how Marine Safety conducts its business. Effectively managing the



Integrated Business Plan 2010-11 to 2012-13 – Snapshot

SECTION III – RISK AREAS

Risk Factor What is the key risk factor and impact on PA?	Risk Level What is the risk level with existing mitigative actions and what will it be after additional mitigative actions? (Low, medium or high)	Mitigative Actions What initiatives are currently underway or planned to manage, reduce or avoid the key risk?	Reference Where can I find more details on the mitigative actions?
<p>RISK #1:</p> <p>Human and Knowledge Capital Risk</p> <p>There is a risk that Marine Safety will not be able to attract, develop and retain sufficient human resources with the necessary knowledge, skills and competencies to fully and efficiently support its operations and responsibilities.</p> <p>The Human and Knowledge Capital Risk originates from conditions largely considered to be external to the immediate control of the department e.g. demographic changes.</p> <p>DESCRIPTION:</p> <p>Marine Safety is facing changes that will result in a dramatic reduction of available and qualified personnel to carry out the necessary work of its program. The reasons for this are many and include:</p> <ul style="list-style-type: none"> ⊙ Demographic trends indicate that Marine Safety program staff at many critical levels will soon be leaving the workforce, which is a trend that will affect the entire marine industry. ⊙ At the same time, there is a growing need for crews and officers to meet increased global demand for marine capacity. ⊙ The competency requirements for staff are changing significantly under Safety Management Systems from a "hands on" operational focus to a policy, regulatory oversight and partner-building focus. ⊙ The rapid development of new technologies by the marine industry is also putting pressure on the skill sets and capabilities of Marine Safety's existing staff. ⊙ Language requirements and employee linguistic profiles are also posing challenges, particularly given it is predicted that by 2011 all labour force growth is expected to result from immigration. 	<p>Before Mitigation: HIGH</p>  <p>After Mitigation: MEDIUM</p> 	<ul style="list-style-type: none"> • Enhance National Training Program (NTP) for Inspectors • Human Resource Renewal, Recruitment and Retention 	<p>Page 31</p> <p>Pages 43 and 46</p>



Integrated Business Plan 2010-11 to 2012-13 – Snapshot

SECTION IV – PRIORITIES and THREE -YEAR ACTION PLAN

Safe Business Priority/Major Initiative #1 : Develop a safety management systems (SMS) program for the Canadian Marine Industry			
Status : Ongoing		Priority/Major Initiative Type : Departmental Priority	
ACTION PLAN FROM 2010 -2011 TO 2012 -2013			
Planned Actions Towards Achieving Expected Result(s) Fiscal Year 2010 -2011	Key Deliverables (Outputs)	Expected Result(s)	OPI
<ul style="list-style-type: none"> a. Continue pilot project to test and assess implementation of SMS (herein referred to as Domestic Safety Management (DSM)) b. Update DSM guidelines and tools in line with results of pilot for stakeholder use c. Develop a MS webpage for industry access and download DSM guidelines and tools d. Consult with external stakeholders through CMAC on Domestic Vessel Safety Management e. Develop DSM documentation for inclusion in NTP Audit training course and deliver initial training to critical mass of MS staff f. Continue development of Marine Safety Oversight (MOS) System 	<ul style="list-style-type: none"> • Pilot project complete • DSM guidelines and tools finalized and published for stakeholder use • Website complete • Several consultations with external stakeholders have taken place through CMAC on safety management systems • Data to support eventual regulatory proposal harvested • Better informed and educated stakeholders • DSM documentation finalized for inclusion in NTP training course and initial training course delivered prior to program deployment • Work is advanced on development of MOS system 	<ul style="list-style-type: none"> • A risk -based regulatory framework consistent with international conventions and Cabinet Directives On Streamlining of Regulations • Reduction of External Dependency Risk • Reduction of Transformation Risk • Reduction of Information for Decision -Making Risk • Enhanced safety in the marine transportation system 	Quality Assurance (AMSA) Director, Julie Gascon



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SECTION V – INTERNAL SERVICES

Human Resources

Summary of Human Resources Management Strategies/Initiatives

Marine Safety has established human resource renewal, recruitment and retention as a management priority for the next three years. The following table provides a summary of Marine Safety's human resources management strategies/initiatives in support of achieving this priority:

HR Management Strategies/Initiatives Fiscal Year 2010 -11	Planned Actions	Key Deliverables (Outputs)	Expected Result(s)	OPI
<ul style="list-style-type: none"> Establish HR renewal, recruitment and retention as a management priority 	<ul style="list-style-type: none"> Carry out the staffing process for successful candidates from the TI collective staffing initiative of 2009 (approx. 30 TIs expected to join workforce nationally) Review strengths and weaknesses of the 2009 collective staffing process and commence plans to carry out another collective staffing process Investigate the establishment of a developmental program for the technical category Examine the potential for integrating officers from the Office of Boating Safety (OBS) to perform some limited inspector's duties by assessing the results from pilot projects currently underway in some regions 	<ul style="list-style-type: none"> Significant reduction to gap of unfilled TI positions Report related to the investigation of a developmental program for the technical category Report on potential for integrating officers from OBS to perform some limited inspector's duties 	<ul style="list-style-type: none"> Reduction of the Human Knowledge and Capital Risk 	Program and Technical Training Services (AMSB) Director, Ruth Romkey



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SECTION VII – PERFORMANCE MONITORING AND REPORTING

SAFE TRANSPORTATION					
Program Name	Type Selection	Strategic Outcome / Expected Result / Output	Performance Indicator	Target	Date to Achieve Target
Marine Safety (Program Activity)	Expected Result	A safe marine transportation system	Rates of accidents/fatalities	5% reduction from 2008 levels	2015 based on strategic plan
	Expected Result	Public confidence in the marine transportation system	% of Canadian public reporting confidence in the safety of the marine transportation system	90%	2010 to 2015 -based on strategic plan
Marine Safety Regulatory Framework (Sub Activity)	Expected Result	A risk-based regulatory framework consistent with international conventions and Cabinet Directives on streamlining of regulations	Number of regulations implemented to support international conventions and Marine Safety Management System (MSMS) policy standards and work instructions	2% improvement of MSMS - subject to change once baseline is set	2008 to 2015 -based on strategic plan
			Level of safety risk reductions (tools to be developed)	5% reductions in levels of safety risks - subject to change once baseline is set	baseline by 2015
	Output	conventions ratified	# conventions ratified	Increase the number of conventions ratified by 10	2015
Marine Safety Oversight (Sub Activity)	Expected Result	Marine community has a strong safety culture	safety culture index (to be developed)	Marine community has a high or very high safety culture - subject to change once index developed	2015
	Expected Result	Compliance with the regulatory framework	% of compliance	Increase compliance with regulatory framework by 5%	2015
	Output	Approvals issued	% of approvals meeting service level standards	Improve service level standards by 4%	2015
	Output	Certificates issued	# certificated issued	Improve service level standards by 4%	2015
Navigable Waters Protection (Sub Activity)	Output	Enforcement actions	# and type of enforcement actions	N/A	2015
	Expected Result	The public's right to safely navigate Canada's waterways is protected	compliance with navigable waters regulations	3% increase in compliance with regulations	2015
	Output	Navigable waters enforcement actions	# and type of Navigable waters enforcement actions	10% reduction in enforcement actions	2015
Divestiture of Marine Training Assets (Sub Activity)	Output	Applications processed	# applications received vs. time to process	5% decrease in time to process applications	2015
	Expected Result	Marine training institutions in Canada independently provide world class training	# of institutions using modernised simulators to train seafarers	5 institutions use modern updated simulators	2011
			# of institutions providing Marine Emergency Duties (MED) training without federal assistance	5 institutions continue Marine Emergency Duties (MED) training at institutions operating with previously TC-owned assets.	2011
	Output	Funded replacement/upgrade of formerly TC-owned simulators	# simulators co-funded	10 simulators located in 5 provinces	2011
	Output	Divested TC MED assets	# of divestiture agreements	10	2015



Revised Performance Measurement Framework

- As part of a departmental initiative, we revised expected results and performance indicators to:
 - Have tangible, measurable and meaningful indicators
 - Make informed day-to-day decisions
 - Properly reflect Marine Safety activities
 - Better assess “value for money” to Canadians



Marine Safety Applications - Examples

- National Time and Activity Reporting System (NTARS)
- Ship Inspection Reporting System (SIRS)
- Automated Certificate Examination System (ACES)
- Regulations Query System (RQS)
- Marine Inspectors Bookshelf



Marine Safety Planning and Performance Challenges



Planning and Performance Challenges

- Decentralized Organization
- PAA vs Organization
- Receipt of many last minute info requests
- Access to information not easily available and consolidated
- Disparate IT applications



Moving Forward



Effective and Efficient Service Delivery to Clients

- Marine Safety organization re-alignment
- Business Line Review to maximize use of resources
- Changes to PAA Structure related to the “Clean Water from Transportation” Program Activity
- Development of program service standards
- Redevelopment of National Training Program initiatives



Integrated Planning Improvement

- Delivery of integrated planning and reporting training across the country
- Revision of Integrated Business Plan
- Development of Operational Plans 2011-12 and 2012-13



Maximization of Performance Information

- Consolidation of Marine Safety applications
- Establishment of an organizational monitoring process
- Alignment of EX performance management agreements with deliverables



Thank You!



Questions?