



SCDF
The Life Saving Force

5 Years Into The National CERT Standard

FSM Briefing 2018

Chng Chin Kiat
Audit Team Leader
Central Enforcement Department

Agenda

- **Outstanding CERT Award 2017 Winners**
- **5 Years Into The National CERT Standard**
 - **In The Beginning...**
 - **The Journey**
 - **CERT In 2018**
 - **What Happens Next?**



Outstanding CERT Award 2017

■ Commercial Premises

- ❖ Crowne Plaza Changi Airport
- ❖ Shenton House
- ❖ Singapore Sports Hub

■ P&FM Premises

- ❖ ExxonMobil Asia Pacific Pte Ltd
- ❖ Shell Eastern Petroleum Pte Ltd
- ❖ Singapore Refining Company Pte Ltd



Outstanding CERT Award 2017

■ Industrial Premises

- ❖ Air Product Singapore Pte Ltd
- ❖ National Environment Agency
– Tuas Incineration Plant
- ❖ Rolls-Royce Singapore Pte Ltd
- ❖ Sembcorp Marine Pandan Yard
- ❖ Sembcorp Marine Tuas Boulevard Yard
- ❖ ST Aerospace Engines Pte Ltd

In The Beginning...

- **CERT required for P&FM storage since 2005**
 - Required for storage more than 5 metric tonnes
 - About 300 P&FM storage licensees
 - Audited annually



Photo: AsiaOne



Photo: CNA

In The Beginning...

- **CERT framework expanded to FSM premises**
- **Introduced National CERT Standard in 2013**
 - **Public buildings**
 - Shopping malls
 - Conference halls
 - Offices
 - Hotels
 - Hospitals
 -
 - **Industrial buildings**
 - Factories
 - Processing plants
 - Workshops
 - Warehouses
 -



In The Beginning...

乌美货仓疑因

股东空有灭火器不知如何

昨晚在乌美1路的一个货仓失火后，一名公司股东尝试用灭火器和消防水管救火，但由于不熟悉操作方式，无法将猛烈火势控制下来。

“One of the owners tried to use a fire extinguisher and a hosereel, but he did not know how to use it”

作方式，加上火势猛烈，只能眼睁睁看着大火肆虐。

接到通报后8分钟赶抵现场的民防部队与大火搏斗超过三小时，并从货运电梯中救出一名受困男子，一名民防人员因高温虚脱送院。

起火地点位于乌美1路（Ubi Road）

失情况如何，并对公司前景未有任何计划。

据记者现场观察，事发两小时后，失火单位依然冒出浓烟，现场有浓浓的烧焦味，杨应青坐在隔离线外休息，脸上尽显疲态。

民防部队共派出三辆消防车

德福工业
废铁工厂

火患浓烟两层楼高 50个灭火器灭不了

王钲扬 报道

jengyang@sph.com.sg

●24小时新闻热线：

1800-8227288/91918727

MMS/Whatsapp传照片：91916194

曾美玲 摄影

德福工业区发生火患，浓烟高达两层楼高，附近业者表示，失火单位使用50个灭火器救火不果，惊动民防部队到场。

这起事件发生在昨天下午1时50分，地点是德福四巷9号的单位。

记者走访事发地点时，现场仍弥漫着浓浓的烧焦味，单位后方则还在冒烟。



▲民防部队到场将火势扑灭。（民防部队面簿照片）

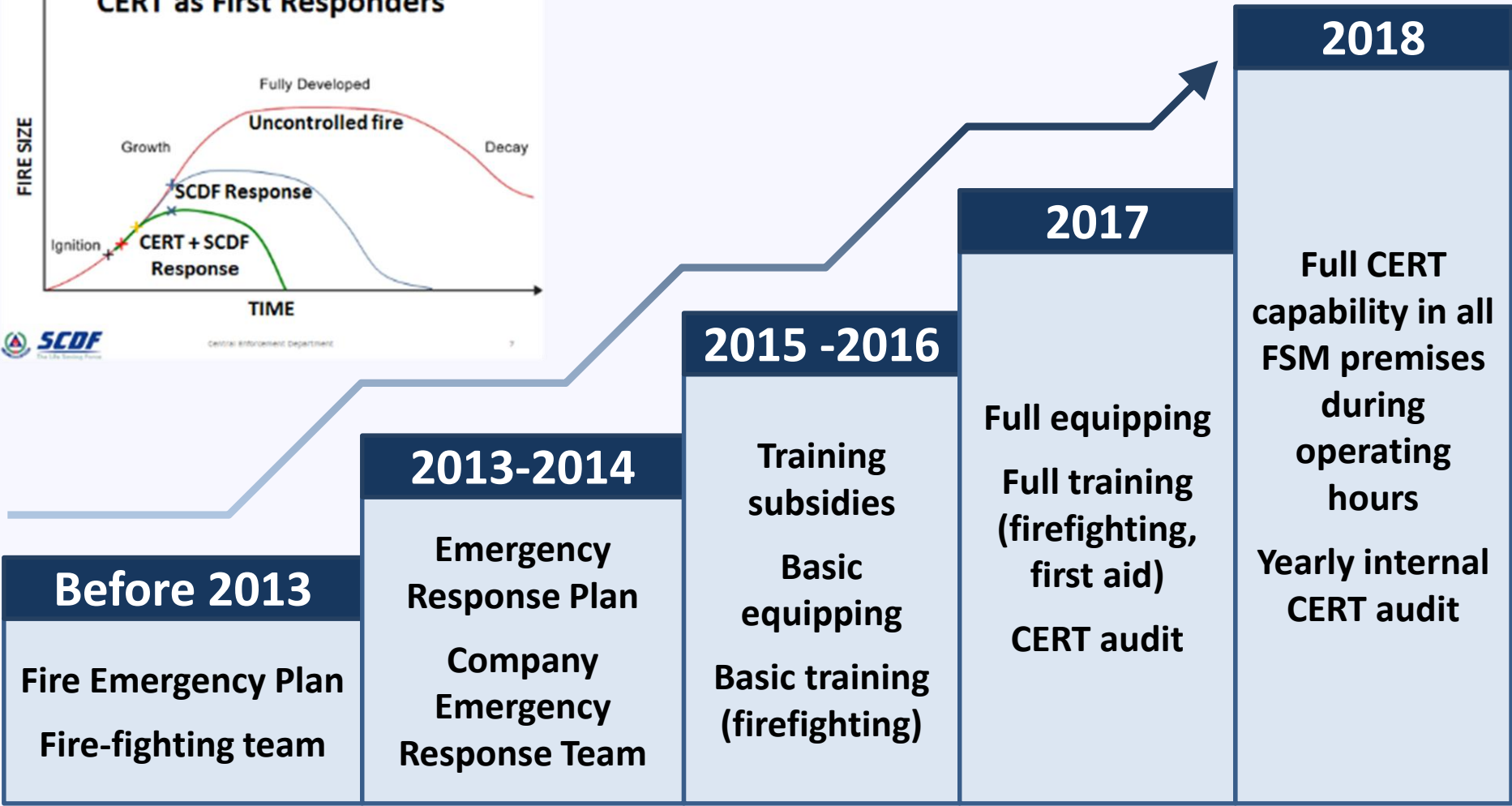
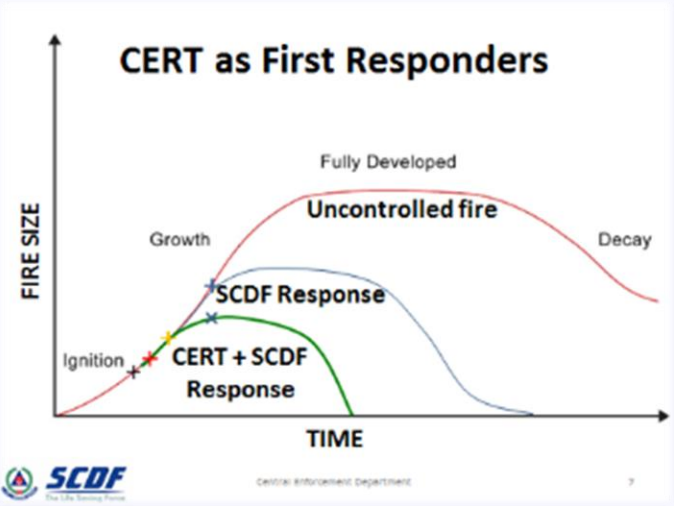
Tried to tackle fire by themselves, used 50 fire extinguishers but failed to extinguish fire, finally called 995 for assistance.

会引发火患。我听闻，单位试图自己将火势扑灭，并使用了50个灭火器，但仍无法灭火，因此马上通报民防部队到场。”

一起火患。

“去年，我相信有另一起小火患发生，但他们自行将火势扑灭。”

Progressive Implementation



The Journey

■ 2010

- Workgroup comprising SCDF, FSMAS, industry reps
 - Assessed emergency response capabilities of buildings
 - Discussed standardised formation of CERT
- Introduced plan to FSM premises representatives
 - Fire Safety Manager briefing
 - Fire Emergency Plan to Emergency Response Plan

■ 2011 – 2012

- Seminars for FSM building representatives and FSMs
- Engagement with A-CERTS, FSMAS, NFEC, SSWGs



The Journey

- **2013**
 - CERT Regulations for FSM premises
 - ERP Regulations
 - Formal introduction of CERT in FSM briefing
 - Continuous engagement with representatives
 - Briefings & seminars
 - Townhall sessions
 - Consultations
 - 6 months legal grace period for formation

The Journey

- **2014**
 - Fine-tuning of National CERT Standard
 - Allowed in-house refresher training
 - Revised medical screening to allow self declaration
 - Reduced training and equipping requirements for Tier 1 HRI, Tier 2 & Tier 3 CERTs
 - Lowered CERT Tier for premises storing LPG for eateries and premises with only diesel stored underground
 - Granted additional time for formation
 - Progressive implementation of CERT requirements

The Journey

■ 2015 – 2016

- Expanded pool of accredited training organisations
- Reviewed CERT audit checklists
- Support for MCSTs and managing agents
- CERT, ERP and FSM materials available online
 - CERT audit checklists
 - Introduction to CERT
 - ERP template
 - Evacuation guidelines
 - Past briefings, lectures and seminars

The Journey

■ 2017

- Further revised Tier 3 CERT audit
- Higher penalties for premises without CERT if uncovered during incidents
- Started enforcement action
 - Failure to establish CERT
 - Failure to train CERT
 - Failure to equip CERT

Audit Requirement

- Penalties for failure
 - Re-audit
 - Notice for Fire Safety Offences (NFSO)
 - Revoke of P&FM storage license
 - Offence liable for fine and/or imprisonment if CERT is not formed

Presented 12 January 2016
A-CERTS CERT Seminar



A-CERTS CERT SEMINAR 2016

14

CERT In 2018

- **Almost all FSM premises with CERT response**
- **eFSM portal**
 - CERT Tier classification
 - CERT member details
- **CERT, FSM and ERP materials available online**
 - FAQs
 - FSM handbook
 - Revised evacuation guidelines
 - Briefings, lectures & seminars materials

CERTs At P&FM Premises



TheLifeSavingForce @SCDF



Firefighting ops at Pulau Busing ongoing. SCDF working with CERT members to carry out boundary cooling of the adjacent tanks. Large Monitors being set up to tackle the raging oil storage tank fire.

This is expected to be an extended firefighting operations.

11:01 PM - Mar 20, 2018

67 109 people are talking about this



Singapore Civil Defence Force added 6 new photos.

21 Mar at 01:41

[FINAL UPDATE: Fire @ Pulau Busing]

SCDF was alerted to the fire at Pulau Busing at about 5.50pm. After approximately 6 hours of intense firefighting operations, the raging oil storage tank fire was extinguished by the combined efforts of SCDF Emergency Responders and CERT members. 31 firefighting and support vehicles and 128 SCDF personnel were i...

Continue reading



1.1K

81 comments • 275 shares



What Happens Next?

■ 2017 Case Study

- FSM attended annual FSM Briefings in 2013 to 2017
- Attended sharing sessions on CERT requirement
 - 2014-11-11 / 2016-04-27 / 2016-06-28
 - 2016-09-06 / 2017-08-23
- HQ CED officers sent email reminders & calls
 - 2016-02-22 / 2016-03-01 / 2016-03-04
 - 2017-07-11 / 2017-07-13 / 2017-07-18
- Called & emailed a SCDF fire station personnel on 17 July 2017 & 21 August 2017 to enquire about CERT without sending the same query to CED

What Happens Next?

■ 2017 Case Study

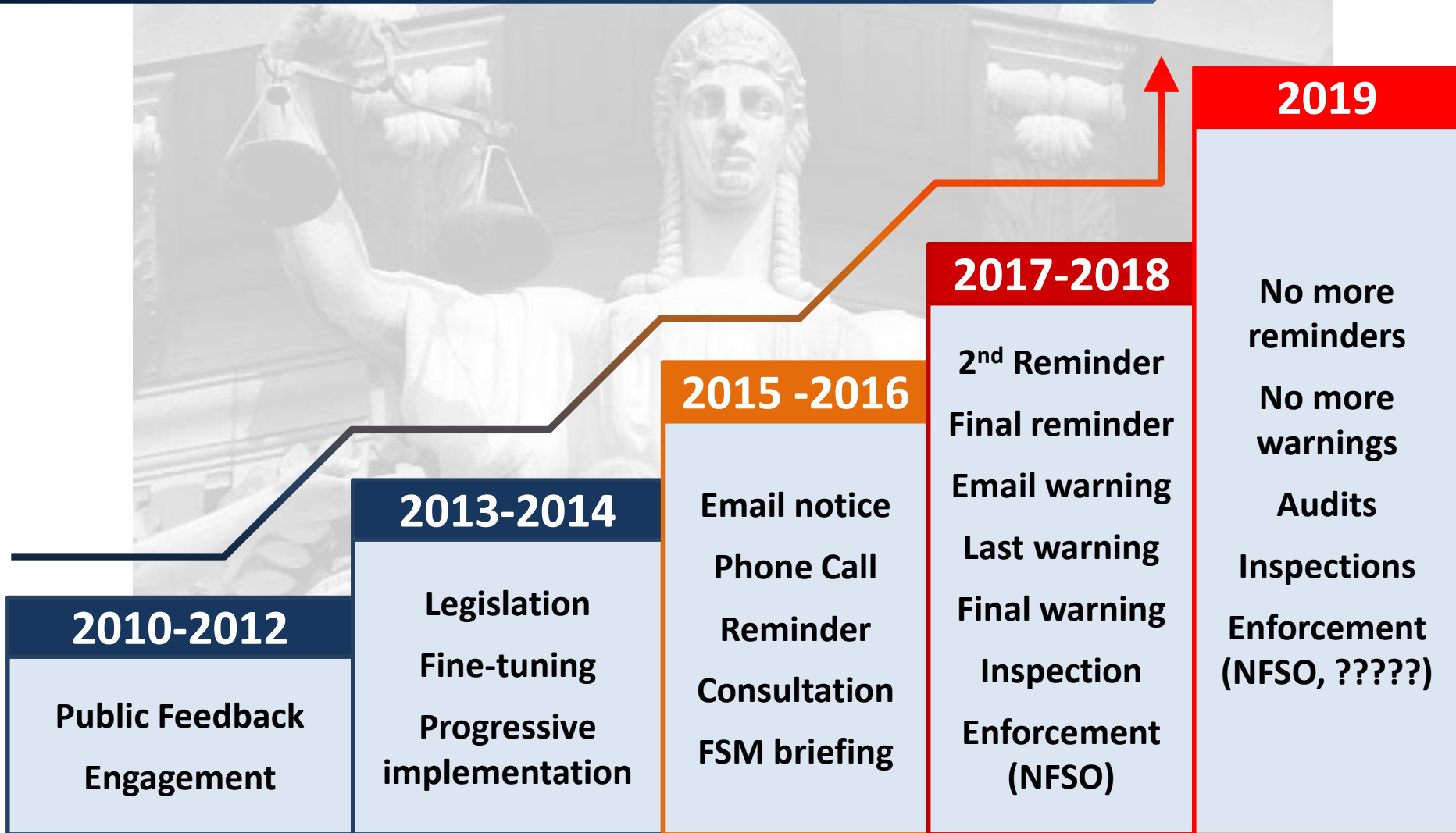
- Issued 3 Notices of Fire Safety Offence in September
 - \$1000 Failure to establish CERT
 - \$1000 Failure to train CERT
 - \$1000 Failure to equip CERT
- Appealed to waive fines on 8 Sep 2017 by fax
 - “SCDF did not reply email enquiries” (we did)
 - “Unsure which course to attend” (we told them)
- Appeal rejected on 12 Sep 2017
 - Extended fine payment deadline for offer of composition
 - To form CERT by Dec 2017

What Happens Next?

■ 2017 Case Study

- #1 MP appeal on 25 Sep 2017
 - Premises understand requirement now
 - Will commence training
 - Appeal to waive fines
- “I regret to inform you that the outstanding offences cannot be waived.”
 - Extended composition fine deadline to 16 Oct 2017
- Appeal by #2 MP on 10 Oct 2017
 - Selectively provided chronology of events
- All fines paid on 17 Oct 2017

Progressive Enforcement



Summary

- **SCDF and CERTs are partners**
 - Always call 995 immediately for fire and medical emergencies
- **Continue to make sure CERT is properly established, trained and equipped**
 - Have additional backup available
- **SCDF moving from progressive implementation to progressive enforcement**
- **Challenging journey, but we made it**



A Nation Of Lifesavers

2025 A NATION OF LIFESAVERS

Vision 2025 - 'A Nation Of Lifesavers'

A Nation of Lifesavers' is a bold vision statement that will propel SCDF to higher levels of service delivery, operational effectiveness, and service excellence. The 'A Nation of Lifesavers' vision is the type of operational progress that SCDF will be able to build on the foundation of the Fire and Rescue Transformation within SCDF.

The services will see the different operational (prevention, incident, fire, structural and industrial) training regimes and personnel capability over their career of relevance and accordingly to ensure the safety of their neighbourhood. Underpinning the vision is the premise that SCDF continues to provide the highest standards in our response, the capacity to best placed to respond immediately from an incident, and the ability of the person to respond to be seen as a product. The bridge to critical incident between incident response and SCDF's critical success.

Building A Strong SCDF Through Training Transformation

SCDF will establish new training regimes to ensure that staff are equipped with the competencies and capabilities that are needed to succeed in the evolving operating landscape. This will be done through various measures that include new training programmes, leveraging the latest training technology, and partnering with industries of higher learning.

- Operational Risk Training Facility** - A new training facility for operational risk training, including fire safety, fire prevention, and fire investigation.
- Police Constable And Marine Training Facility** - A new training facility for police constables and marine training, including fire safety, fire prevention, and fire investigation.
- Sea Plo Platform And Rescue Training Facility** - A new training facility for sea plo platform and rescue training, including fire safety, fire prevention, and fire investigation.
- Sea Plo Platform And Rescue Training Facility** - A new training facility for sea plo platform and rescue training, including fire safety, fire prevention, and fire investigation.
- Advanced Training** - A new training programme for advanced training, including fire safety, fire prevention, and fire investigation.
- Specialised Skills In Firefighting** - A new training programme for specialised skills in firefighting, including fire safety, fire prevention, and fire investigation.



A Joint Community - SCDF Response Model For Increased Survival Outcomes

A model that allows different response elements leading to increased survival outcomes. Various fire of these response elements will channel and coordinate together to coordinate through a more efficient and enhanced pre-incident model.



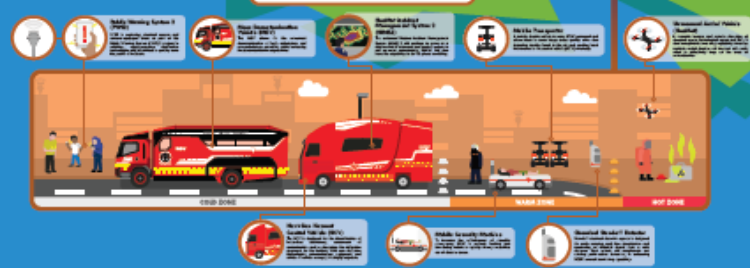
Technology As A Force-Multiplier For Higher Operational Effectiveness

The drive to transform the nation's fire will bring operational capabilities to bear in order to notify and detect incidents - SCDF the nation's fire and rescue services (FRS) is committed to embracing new technologies to enhance its operational readiness, when dealing with incidents.



Enhanced Resilient Capabilities

Designed to allow us to respond to incidents that require a coordinated response, SCDF will be able to respond to incidents that require a coordinated response. As a result, SCDF will be able to respond to incidents that require a coordinated response.



Global Marine Response

Response in a building marine port which handles one of the world's largest ports. With SCDF operating in the coastal corridor of all CSD, the focus will be on enhancing its response capabilities.



LEGEND

- Enhancing Competencies
- Enhancing Capabilities

Thank you for your time and support!

5 Years Into The National CERT Standard

**FSM Briefing
23 October 2018**

SCDF_CERT@SCDF.GOV.SG
Central Enforcement Department



UNCLASSIFIED