



Drainage Services Department

NEC Asia-Pacific Users' Group Conference



NEC in DSD at 2013

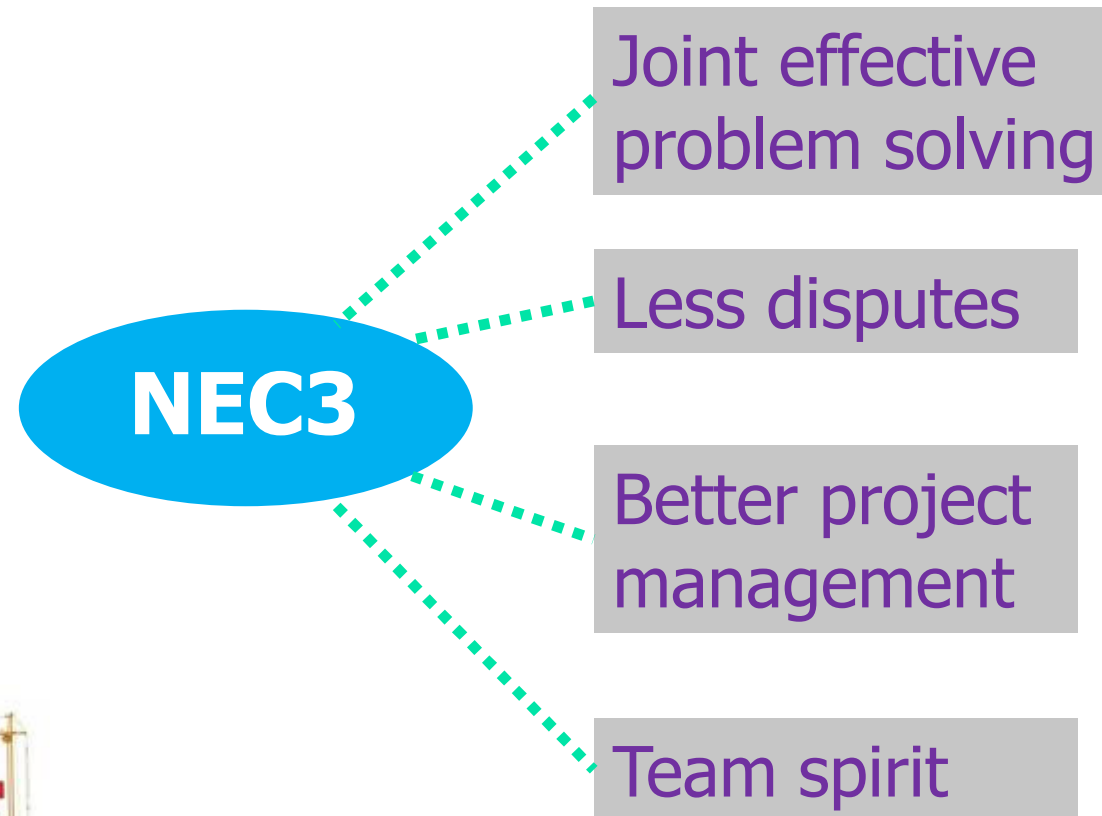
Ir. TSUI Wai

Deputy Director of Drainage Services

25 November 2013

NEC 3 - Core Clause 10.1

Mutual Trust & Co-operation



NEC 3- Core Clause 16.1 -16.4

Early Warning



- Proactive participation by *Project Manager*, *Supervisor* and *Contractor*
- Risk management – risk register, early warning notice and risk reduction meetings





NEC 3 - Core Clause 31.2, 32.2

The Programme



- Heart of ECC, used in joint-decision making between *Contractor* and *Project Manager*
- Extensive list of requirements in each programme
- Programme regularly updated and submitted for PM's acceptance
- The *Employer* obligated to ensure third party to work within Accepted Programme

NEC 3 - Core Clause 60.1

Compensation Event



- Equitable risk sharing
- Inclement weather
- Unforeseen ground conditions
- Time and cost
- Prospective (not retrospective)



Uncharted Utilities



Flooding on site

1st Pilot NEC Contract – Fuk Man Road



**SUCCESS
or
NOT ?**

Success in:

- Early completion by 6 month
- Gain share of ~ 5%
- Working relationship
- Public Image

- Accidental
- Small scale and simple nature
- All parties to aim for success
- Special attention by the *Employer*
- Assign good PM and supervisor to manage
- *Contractor* prepare to lose and cooperate



5 On-going Pilots in DSD

Project	Managing Office	Nature	Contract Sum	NEC Form	Start / Completion
DC/2012/09 Pak Hok Lam Trunk Sewer and Sha Tau Kok Village Sewerage	Consultant-managed	Trunk & village sewers, rising mains, pumping station	\$187M	Framework Contract + ECC Option B	June 2012 / Aug 2016
DC/2012/05 Yuen Long and Kam Tin Sewerage Stage 3 Package 2	Consultant-managed	Trunk & village sewers	\$145M	ECC Option D	Sep 2012 / Sep 2016
DC/2012/03 Happy Valley Underground Stormwater Storage Scheme	In-house	Underground flood storage tank	\$678M	ECC Option C	Sep 2012 / Apr 2018
DC/2012/07 Lam Tsuen Valley Sewerage – Village Sewerage, Stage 2, Phase 1	Consultant-managed	Trunk & village sewers, rising mains, pumping station	\$173M	ECC Option B	Oct 2012 / Jun 2016
DC/2012/01 Building and Civil Maintenance and Minor Works to DSD Plants and Facilities (2012-2016)	In-house	Term maintenance + minor works	\$160M	TSC Option A	Dec 2012 / Nov 2016

Contract no. DC/2012/03

Happy Valley Underground Stormwater Storage Scheme



Commencement :

September 2012

Completion :

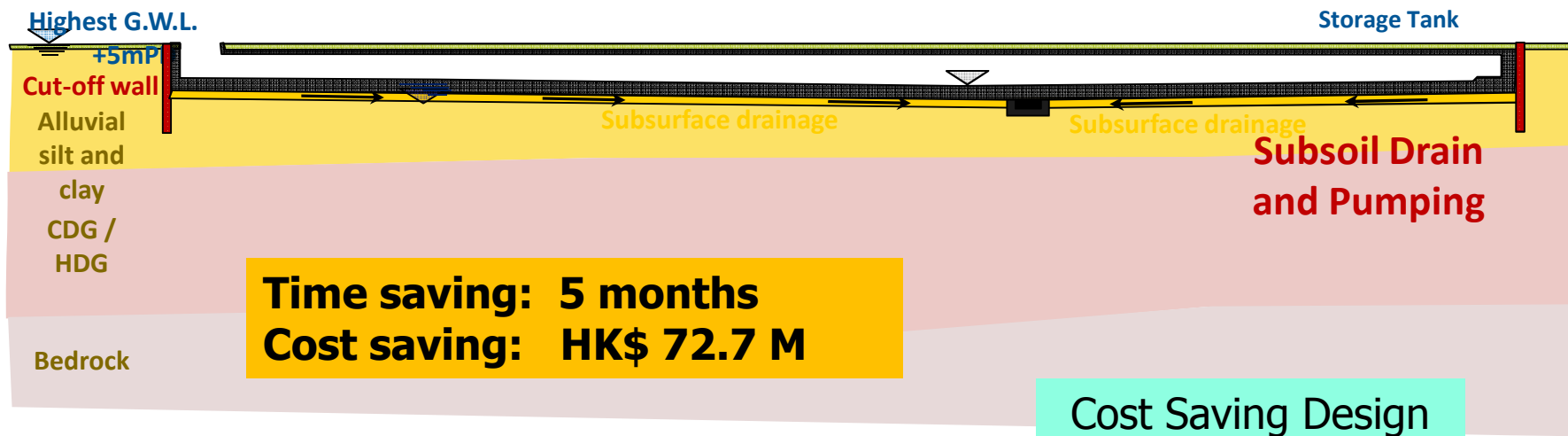
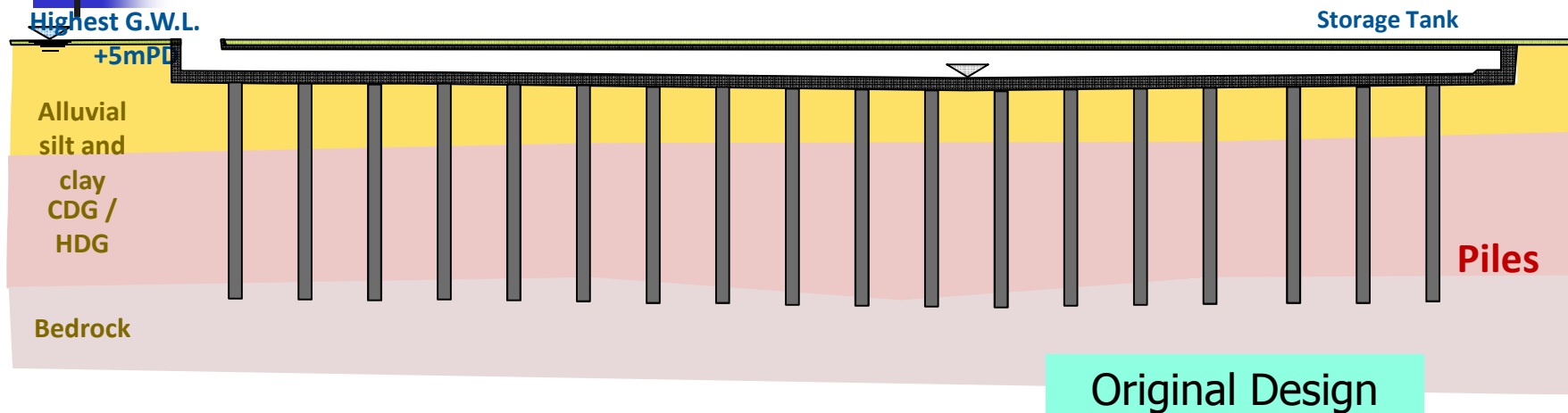
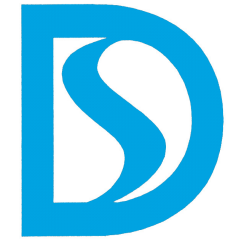
April 2018 (67 mths)

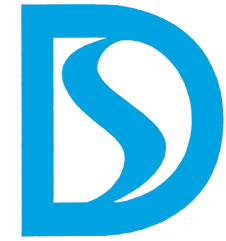
Tender sum \$678M

(not including
contingency and price
fluctuation)



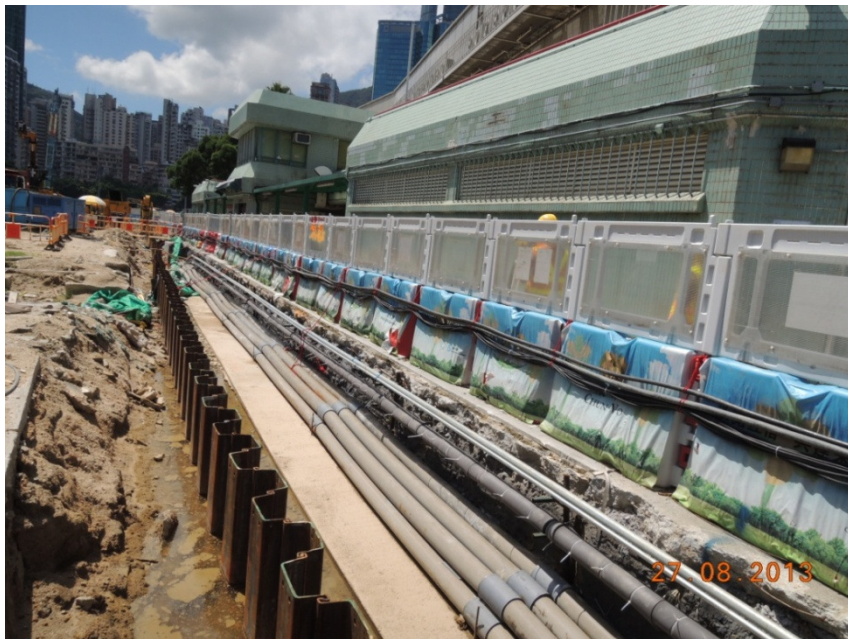
Cost Saving Design for Foundation





Joint Problem Solving (1)

Diversion of HKJC's Optical Fiber



- Contractor's EW notice
- Risk Reduction Meeting amongst DSD/HKJC/Contractor
- DSD/HKJC agreed scope of works
- DSD's/HKJC's contractors collaborated in diversion works



Joint Problem Solving (2)

Diversion of HEC's Cable by Joint Efforts

- Advance planning cable diversion for HKJC's works
- DSD/HKJC/HKFC/LCSD agreed diversion and closure of EVA
- DSD/HKJC/HEC agreed scope of works
- DSD's/HKJC's/HEC's contractors collaborated in cable diversion works



Joint Ownership



Joint Public Consultation



Joint Community Cleaning



渠務署
Drainage Services Department



跑馬地地下蓄洪計劃
Happy Valley
Underground Stormwater
Storage Scheme



俊和
CHUN WO

通訊 二〇一三年三月號 Newsletter March 2013

跑馬地地下蓄洪計劃主體工程正式開展 - 簽約儀式於2012年9月5日舉行

Commencement of Happy Valley Underground Stormwater Storage Scheme (HVUSSS) Main Contract Contract Signing Ceremony on 5 September 2012



「跑馬地地下蓄洪計劃」主體工程合約簽署儀式。

(後排左起) 渠務署助理署長(設計拓展) 陳建光先生、渠務署署長 陳志超先生、發展局常任秘書長(工務) 韋志成先生、俊和建築工程有限公司總裁彭一邦先生、俊和發展集團執行董事李慧嫻女士、俊和建築工程有限公司總經理高永年先生(前排左起) 渠務署總工程師(排水工程) 陸偉雄先生、渠務署副署長徐偉先生、俊和發展集團主席彭一庭先生、俊和發展集團董事總經理郭煥釗先生

跑馬地地下蓄洪計劃主體工程正式開展 - 簽約儀式於2012年9月5日舉行

在發展局常任秘書長(工務) 韋志成和渠務署署長陳志超的見證下，渠務署及承辦商俊和建築工程有限公司簽署「跑馬地地下蓄洪計劃」主體工程合約。

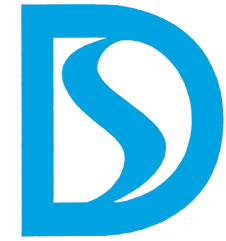
韋志成表示：「『跑馬地地下蓄洪計劃』是政府至今批出最大規模的『新工程合約』項目。『新工程合約』強調合約雙方的互信和夥伴合作精神，並設有提升成本效益和降低風險的條款。」

這項防洪工程引入多項創新和環保元素，預計2015年雨季前部分可投入運作，整項工程於2018年年初完成。

Commencement of Happy Valley Underground Stormwater Storage Scheme (HVUSSS) Main Contract Contract Signing Ceremony on 5 September 2012

The Permanent Secretary for Development (Works), Mr Wai Chi-sing, and the Director of Drainage Services, Mr Chan Chichiu, witnessed the signing

Newsletter

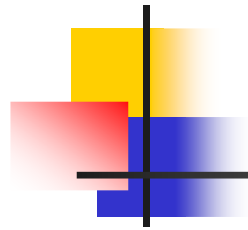


1st NEC Subcontract

- Option selected: Option B (Priced subcontract with bills of quantities)
- Contract Sum: HK\$ 20 M
- Scope: construction of twin cells box culvert

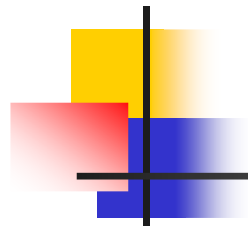
NEC Subcontract –
Introductory partnering workshop
(*Project Manager, Main Contractor,
Sub-contractor*)



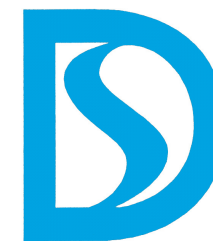


NEC Contracts in DSD





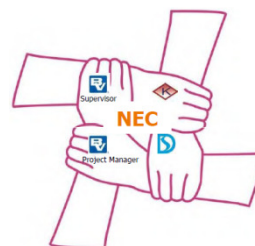
Logos Promoting Partnering



Contract No. DC/2012/03



Contract No. DC/2012/09



合作精神同發揮，齊心共建鄉村渠

Contract No. DC/2012/05



Contract No. DC/2012/07

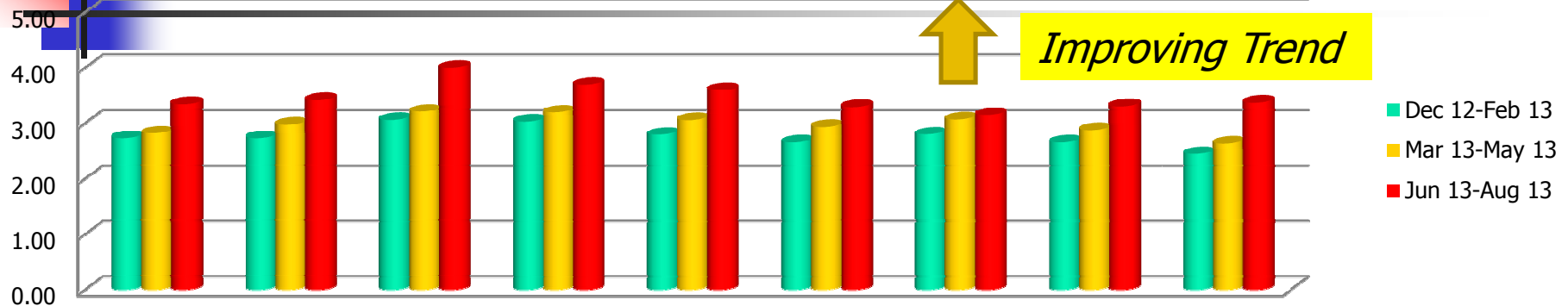


Contract No. DC/2012/01

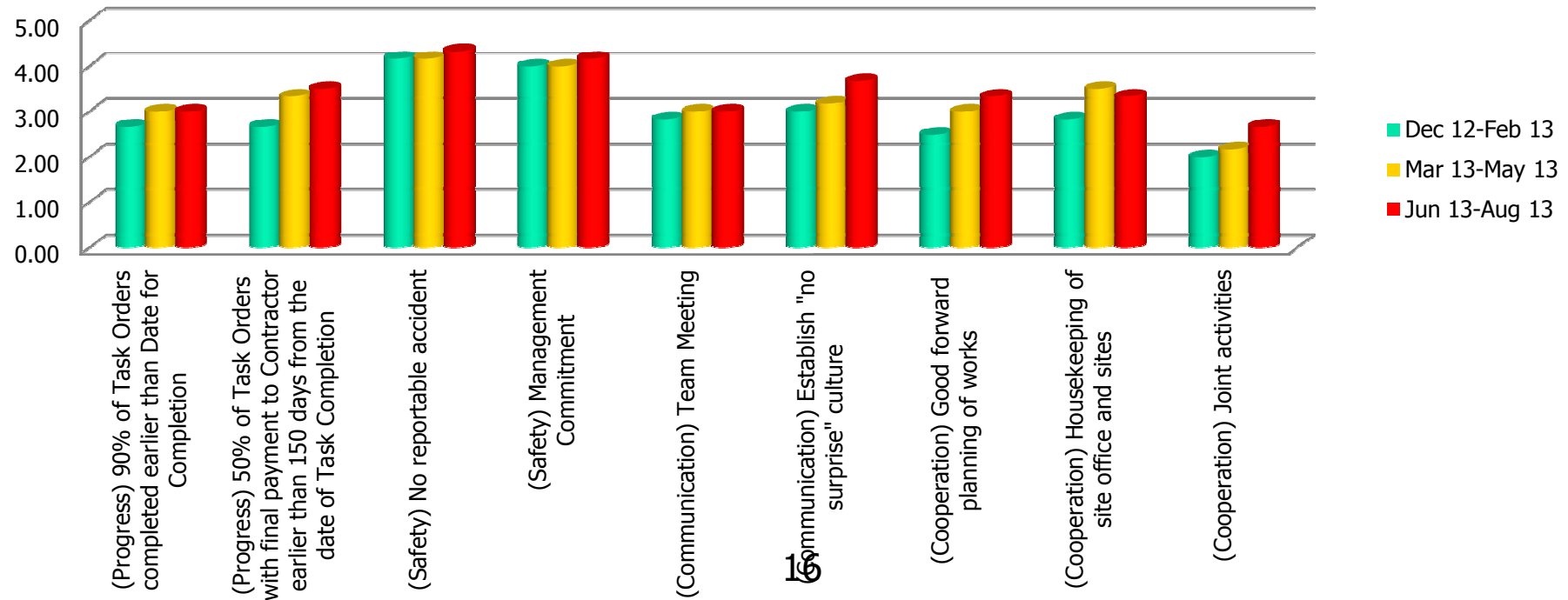
Partnering Scores DC/2012/01



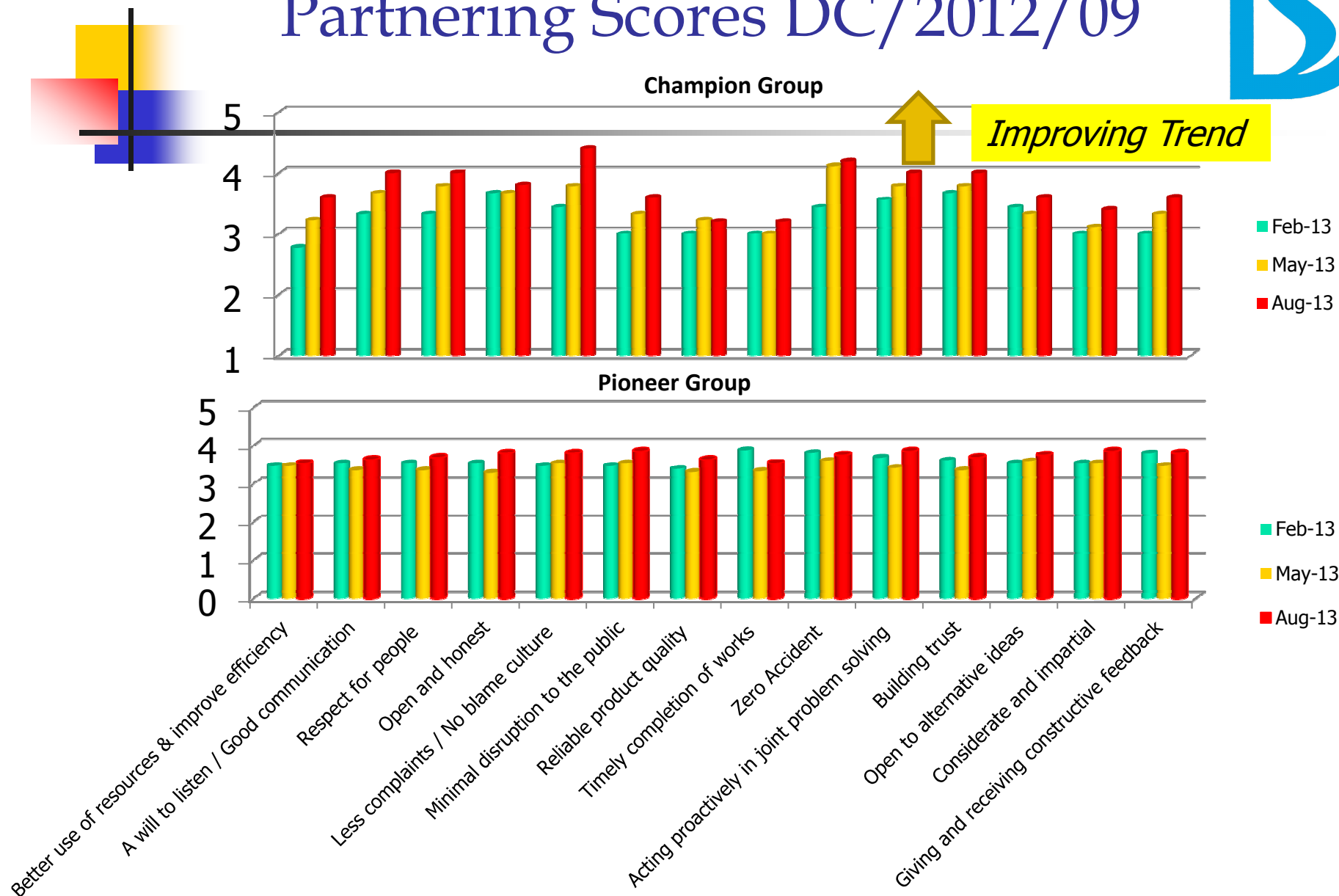
Frontline Staff



Management Level

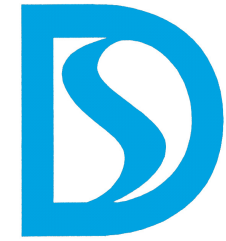


Partnering Scores DC/2012/09

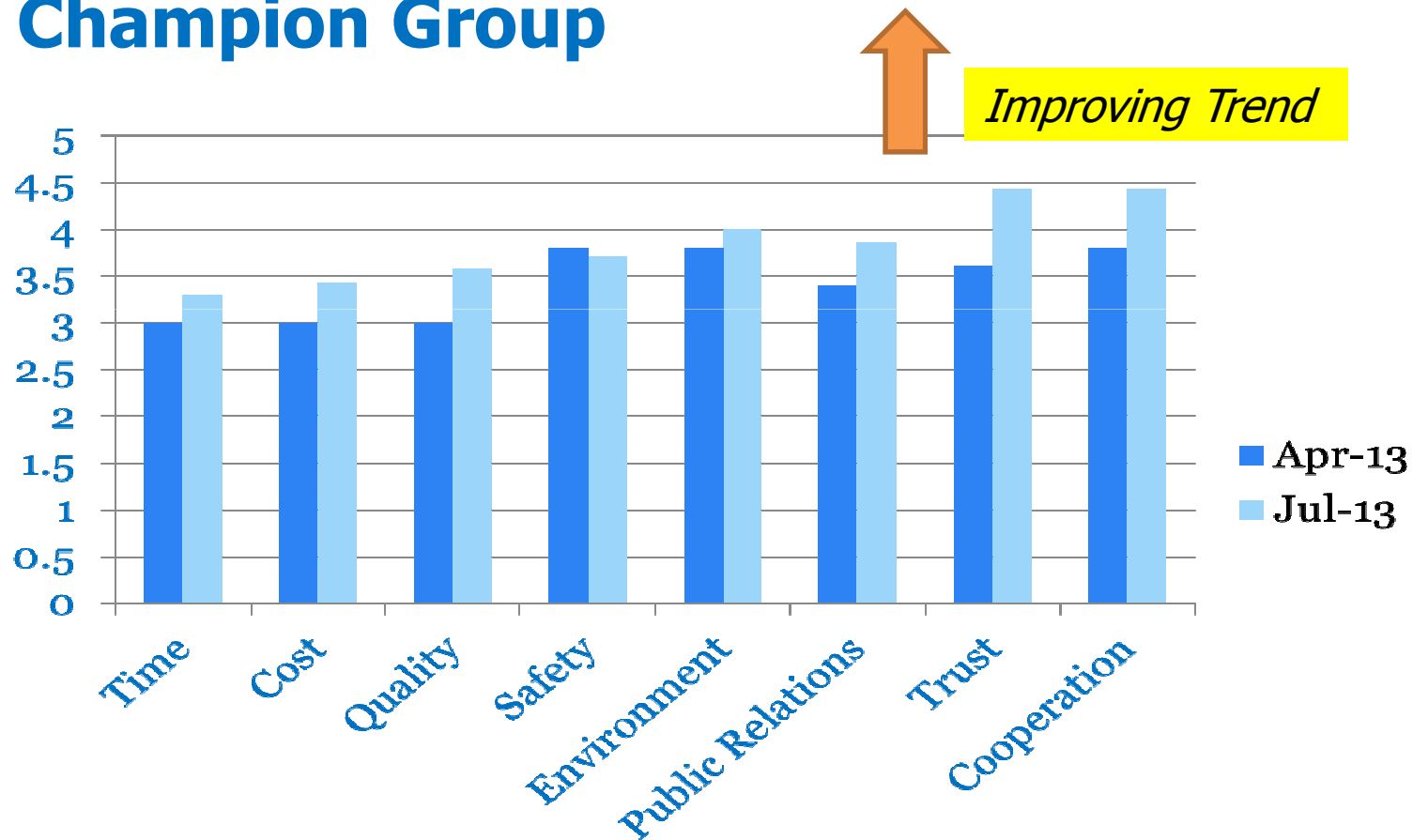




Partnering Scores DC/2012/05



Champion Group

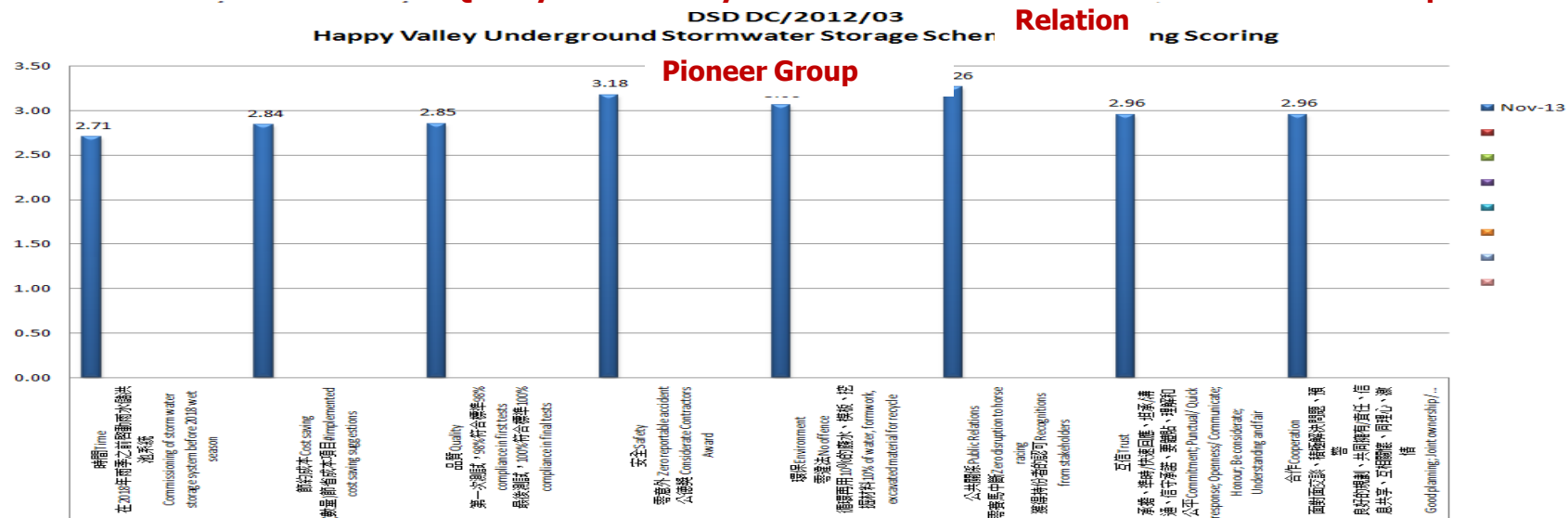
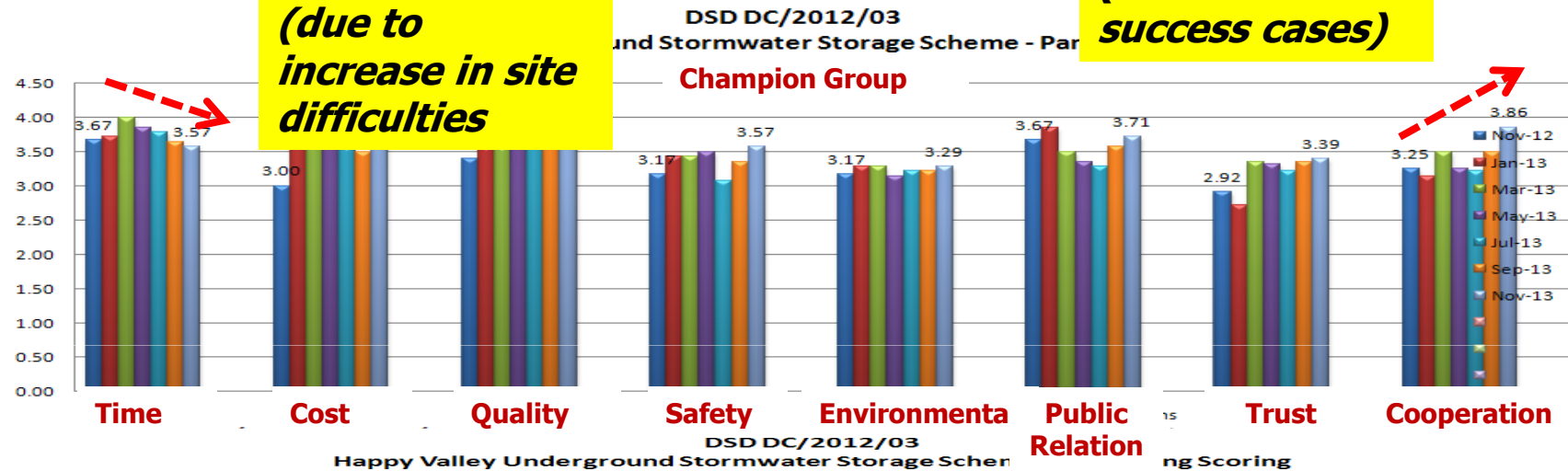




Partnering Scores DC/2012/03

**Down Trend
(due to
increase in site
difficulties)**

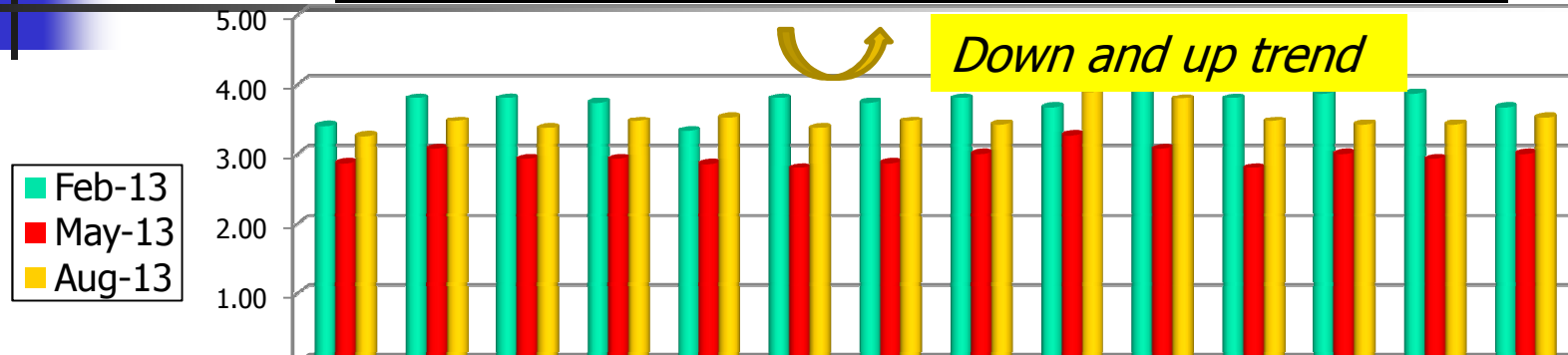
**Up Trend
(after some
success cases)**



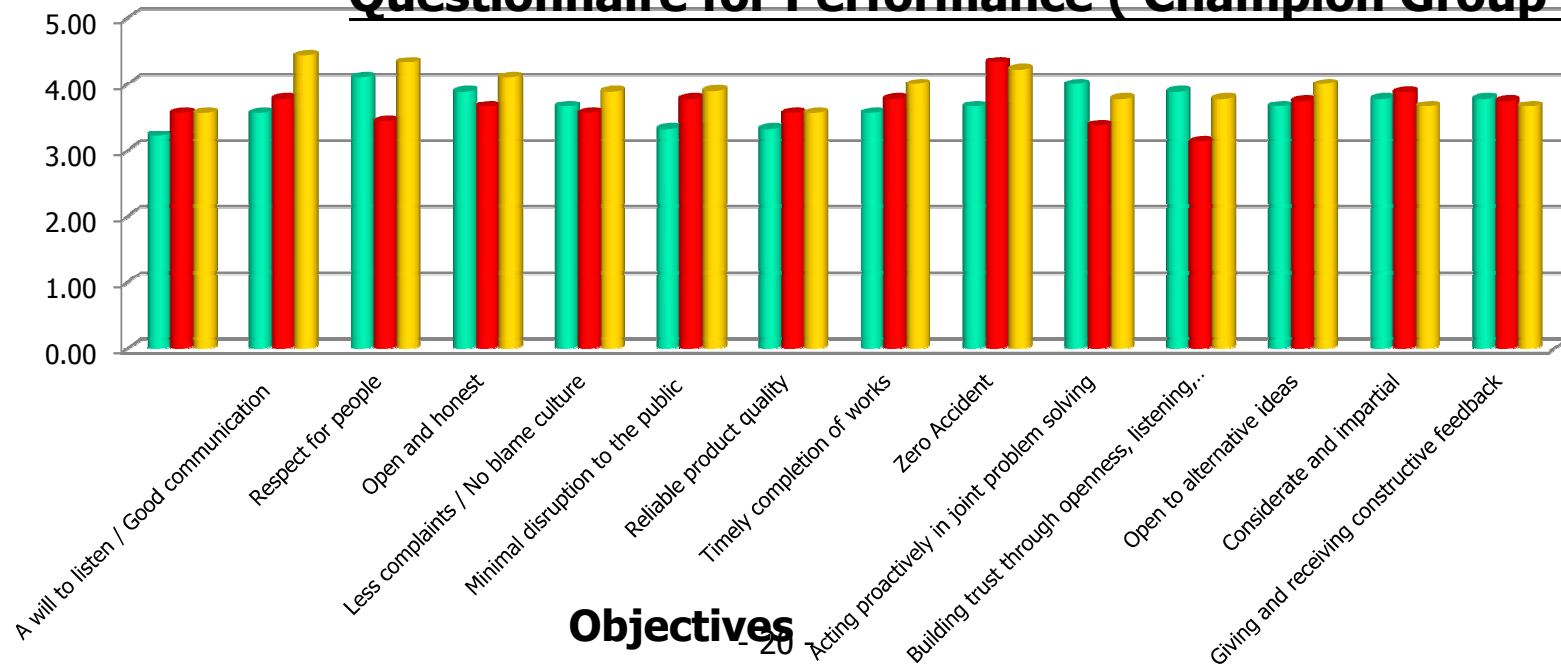
Partnering Scores DC/2012/07



Questionnaire for Performance (Pioneer Group)



Questionnaire for Performance (Champion Group)



Objectives



Good Practices (1)

Project Manager's Staff

Contractor's Staff

Cost consultants' Staff

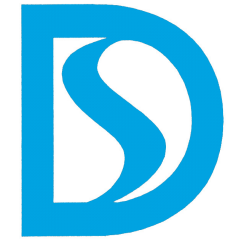


Joint Office

- PM, Supervisor, Contractor in same office
- Facilitating **joint** problem solving
- Improved communication



Good Practices (2)

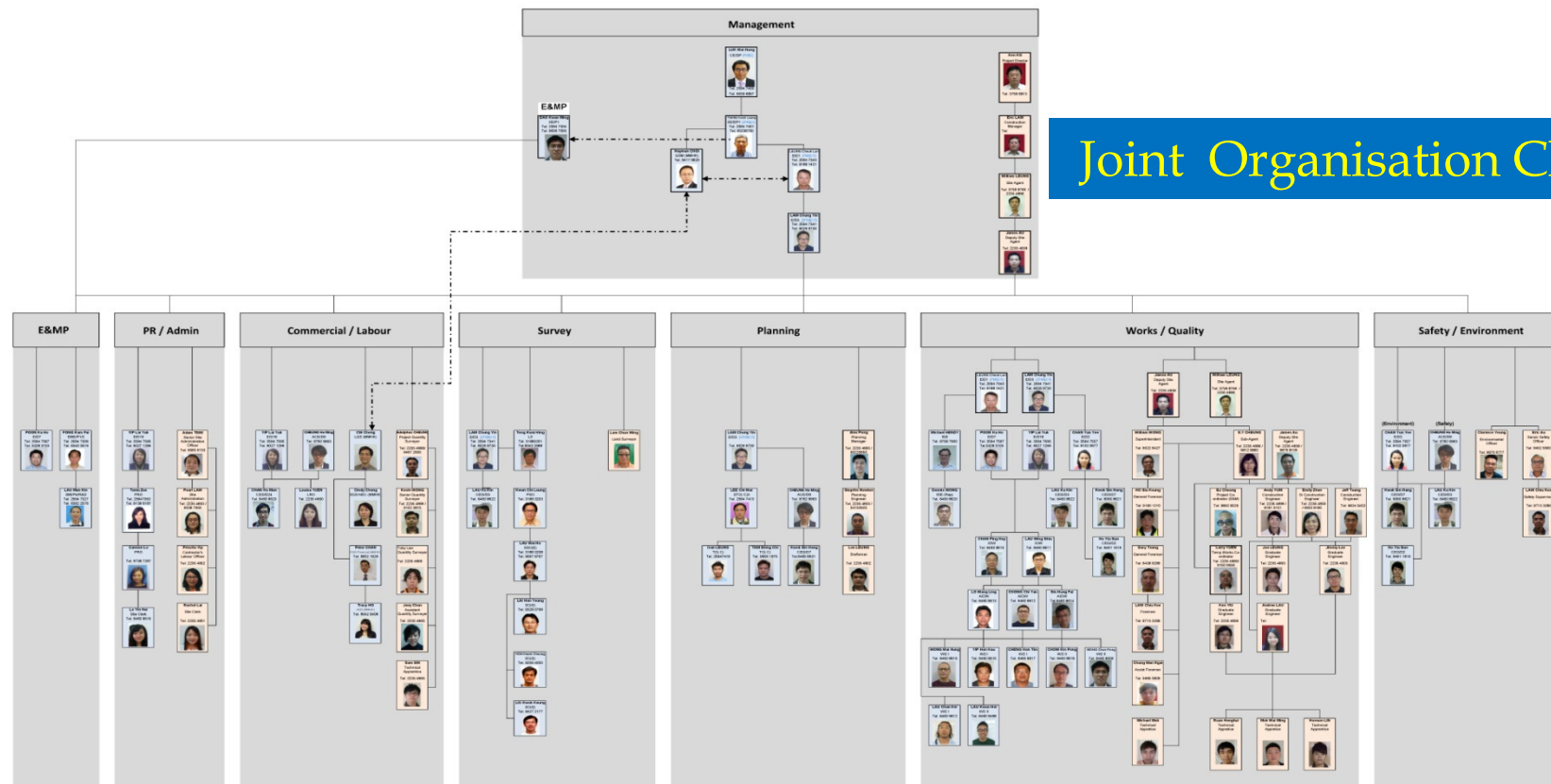


Drainage Services Department
Drainage Projects Division



ChunWo Construction &
Engineering Co. Ltd.

Contract No. DC/2012/03 - Happy Valley Underground Stormwater Storage Scheme
Organisation Chart for Joint Project Manager / Contractor Site Office



Joint Organisation Chart

Good Practices (3)

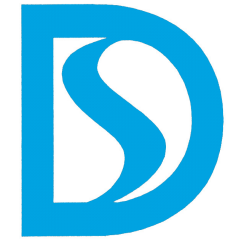


Dragon Boat Competition

Soccer team



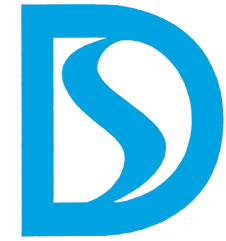
Good Practices (4)



School visit

Elderly home visit





Good Practices (5)



Birthday party

Body check





Upcoming NEC Contracts / Consultancy



- **E&M Contract**

Tender invitation - Nov 13

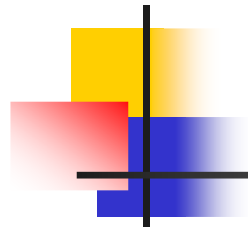
Contract start – Mar 14

- **PSC**

EOI - Dec 13

Consultancy start – Apr 14





THANK YOU

**** 2 more notices****

NEC Corner in DSD website



- Home
- What's New
- About Us
- Our Projects
- Flood Prevention
- Sewerage
- Greening
- Sewage Services
- Charging Scheme
- Publicity and Publications
- Technical Manuals
- Code on Access to Information
- Education
- Service Enquiries
- FAQ
- Tender Notices
- Useful Links
- RSS Feeds

Welcome to DSD website

“ To provide world-class wastewater and stormwater drainage services, enabling the sustainable development of Hong Kong ”

www.dsd.gov.hk

Flood Prevention

集思港益
Thoughts for Hong Kong



DSD's Projects Websites





DSD R&D Forum 2013

New Engineering Contract Session



Date: 28 November 2013

Time: 9:15 – 12:30

Venue: Central Library