
DROPS
DROPPED OBJECTS PREVENTION SCHEME

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11.20-11.35	**Dropped Object Presentation using Deck Management System & Artificial Intelligence**	Shreyas Koliyot, Tech 27
11.35-11.55	**DROPS Forum survey/Way ahead – table work**	All Attendees
11.55-12.00	**AOB – Open Floor Questions**	All attendees

3M
A-STAR TESTING & INSPECTION
A2SEA
ABS
aibel
NTC
ALATAS
ALCOTT
Allrig
ALMANSOORI
ALPACCESS
alphasourceintl.com
ALTUS Intervention
AMOSCO
Apache
apave
APEX AIS ASSET · INTEGRITY · SOLUTIONS

Applus RTD
AquaTerra
Arabian Drilling Co.
Archer
ARMULTRA
ASCO
ASG inspection
ASP Rope Access
ASTRON
ATLANTICA
AHI
ATR A CENTURION COMPANY
AXESS World-Class Integrity Solutions
AXIOM OFFSHORE SERVICES
BAKER HUGHES a GE company
BECHTEL
BHP
BILFINGER
international safety solutions

bloxwich GROUP
bp
BUREAU VERITAS
CAN
Caspian Drilling Company Ltd
Cenergy
Chevron
CHRYSAOR
cnooc
ConocoPhillips
CONSTELLATION
CONTROLUNION
D-OCEAN
DBC GROUP AUSTRALIA
Dips

DENHOLM ZHOLDAS
DSL A JOULON COMPANY
DIAMOND OFFSHORE
DOF
Dolphin Drilling
Dropsafe
EDG
encana
energy drilling
EnerMech
ECI
EnQuest
ENSCO
equinor
ergodyne
EXALO
EXPRO
FS Contracting Est.
SGS
Firstrank

GAC
GPS
GCS
GLOBAL ENERGY GROUP
Global Lifting Services Nigeria
globalREMOTE
Gulf Crane
GULF DRILLING INTERNATIONAL
GULF ENERGY Inc.
GWC
HALLIBURTON
HANDS FREE
HEICO
HELIX ENERGY SOLUTIONS
HESS
HIGHLAND OILFIELD SERVICES GROUP
Husky Energy
IADC

ISP INTREPID SAFETY PRODUCTS
Integrated Services
JC International Limited
KCA DEUTAG
LEECMOORE
LEEA
THE LINDE GROUP
Lloyd's Register Energy
MAERSK DRILLING
Marathon Oil
MSF marine safety forum
MATS Mast and Tower Safety Group
MATRIX SERVICE COMPANY
McDERMOTT
MEGARME
Mencast OFFSHORE & ENGINEERING
MESSER Gases for Life
MHI VESTAS OFFSHORE WIND
mhwirth

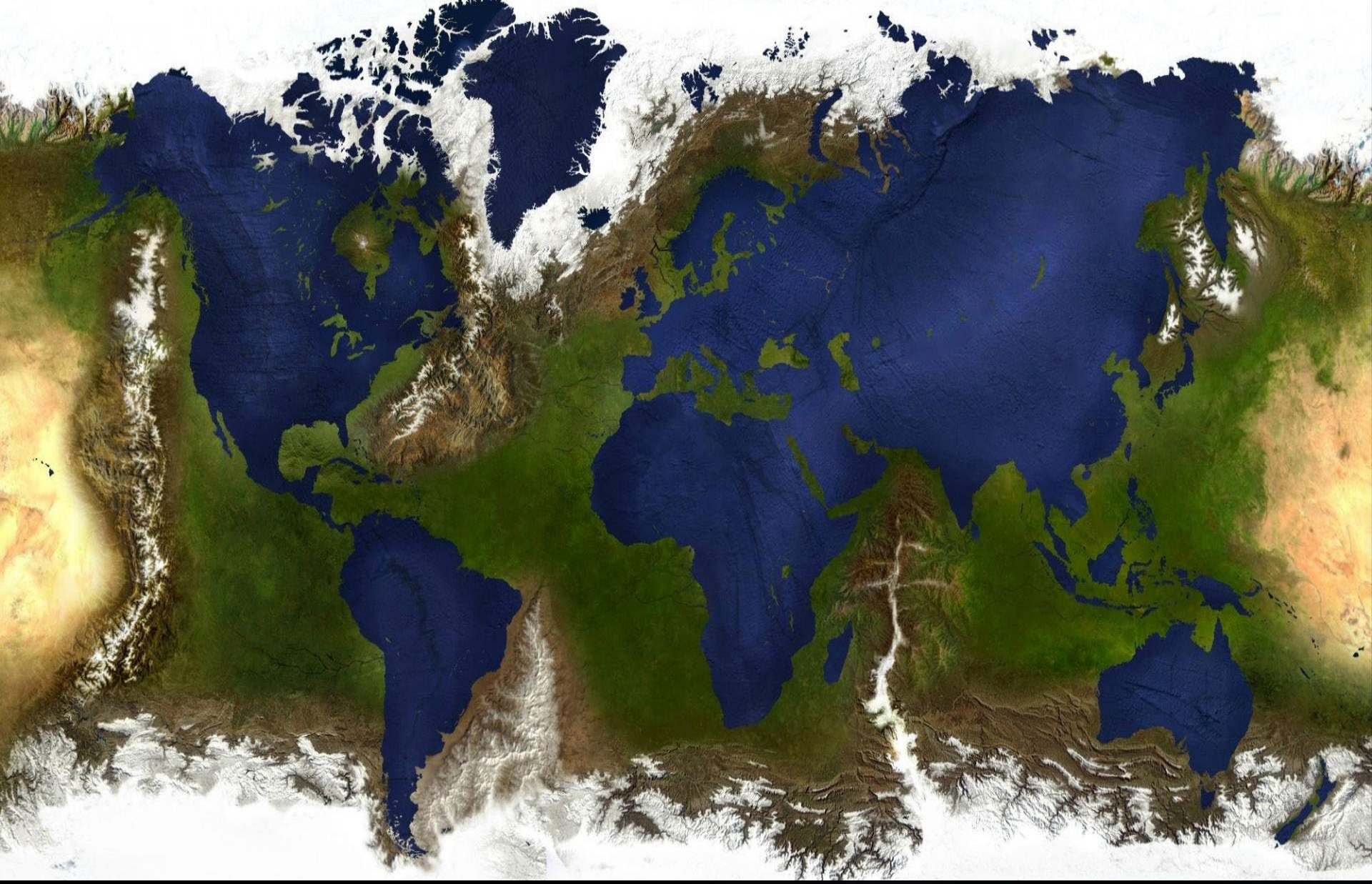
MINTEG MAINTENANCE·INSPECTION·INTEGRITY
MMS
MOGIT
motive
NABORS
NACHER
NEFT ENERGIES
NILE Oil & Gas Services
NLG
NORD-LOCK Bolt securing system
NORTH Q-HSE Consultancy
NORTHERN OFFSHORE
NOV
OXY
OCEANEERING
ODEBRECHT Oil & Gas
ODFJELL DRILLING
OES
Maintenance and Inspection Services
OOCEP

OPAL
Otaoilf Services Limited
PARKER DRILLING
PETERSON
PETRONAS
PILBARA ACCESS
Marriott DRILLING GROUP
PremierOil
PRETECT Value Through Performance
PREZIOSO Linjebygg
PrimaDRILL
Pro3 Safety Filling the gaps in Safety
PETROVIETNAM
QUALITECH
RAI ROPE ACCESS INSPECTION
REPSOL SINOPEC
RIGREPAIRS INTERNATIONAL
RIG RESOURCES
rigsurveys

rigmar
RSS PT RIRE SANJAYA SAKTI
Safer Together
Safety Management Systems
SAIPEM
Schlumberger
SCOTGRIP
Seadrill
SEENOPEX
SEFtec Global Training LLC
Setcore
Fairness
SILVERDOT
SIMPLES OIL & GAS
siwa
SIGS
S.M.P
BAHCO

SNC·LAVALIN
Southey CONTRACTING
sparrows
SPIRIT ENERGY
StanleyBlack&Decker
Stena Drilling
STEP CHANGE IN SAFETY
STORK
subsea 7
SUNCOR ENERGY
SYSTEM 2000
TAQA
TASMAN ROPE ACCESS
TechnipFMC
TEST
TEXO GROUP
THUNDER CRANE
TOOL@RREST
TOPAZ ENERGY AND MARINE
Toprope

TOTAL
TPS
trac
Transocean
TRENDSETTER
TRIANGLE Oilfield Services
TUBESTAR
TULLOW
TÜV SÜD
TY-FLOT
UMC
VELOSI Engineering For A Safer World
VERTECH GROUP
WAGENBORG FOXDRILL
Weatherford
WELL-SAFE SOLUTIONS
Westerton UK limited
wood.
WorleyParsons resources & energy
ZAMIL



DROPS : Global Update

Capturing global learnings from Regional groups

Incident Sharing challenges

Duty Holder engagement

Event planning

Accounts

Regular **UK** Sessions, events in USA and Canada

Online training concepts for general awareness and augmented reality scenarios

Tailored training for organisations

Full support from DROPS Admin (TTT resources)

What about our strategic partners?

Marketing Materials

- Display Banners
- Literature and Vi
- Snakes ‘n’
- Customised

DROPS Networking and Marketing

- Online training concepts on mainstream VR hardware
- Based on DROPS best practice
- Collaborative development and realistic scenarios
- Free to use via DROPS
- Other viable online options being considered

DROPS Focus Groups : Training

DROPs Lessons Learned: Cable Ladder Rungs from Derrick Cable Tray

DROPs Description:

- Following a period of high winds 3 x suspected dropped objects were observed on the East Brae Skid Deck by the Deck Foreman.

Finding:

- Upon inspection, the objects were identified as rungs from a cable ladder rack located within the drilling derrick. The heaviest rung weighed 0.45kg and fell from a height of 48.4m. Based on the calculated impact energy, this had the potential to cause a fatality.
- The pre-fabricated, cable racks with welded rungs were in place from original build (>30 years).
- Plastic cable fasteners were used instead of the required metal cable fasteners.
- Cables were not adequately secured to the ladder rack with the bundle spanning multiple rungs instead of the minimum of every second rung required for Low Voltage cable.

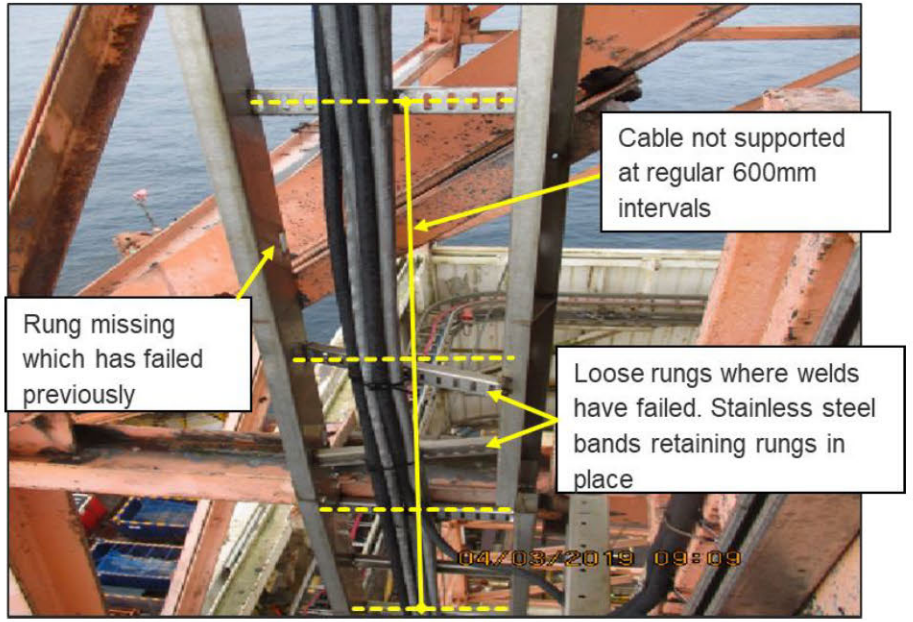
Finding Conclusion:

- Inspection surveys failed to identify:
  - the fatigue caused to the welded ladder rungs by movement in the exposed location, or
  - the cable fasteners were the incorrect specification and used at incorrect spacing.

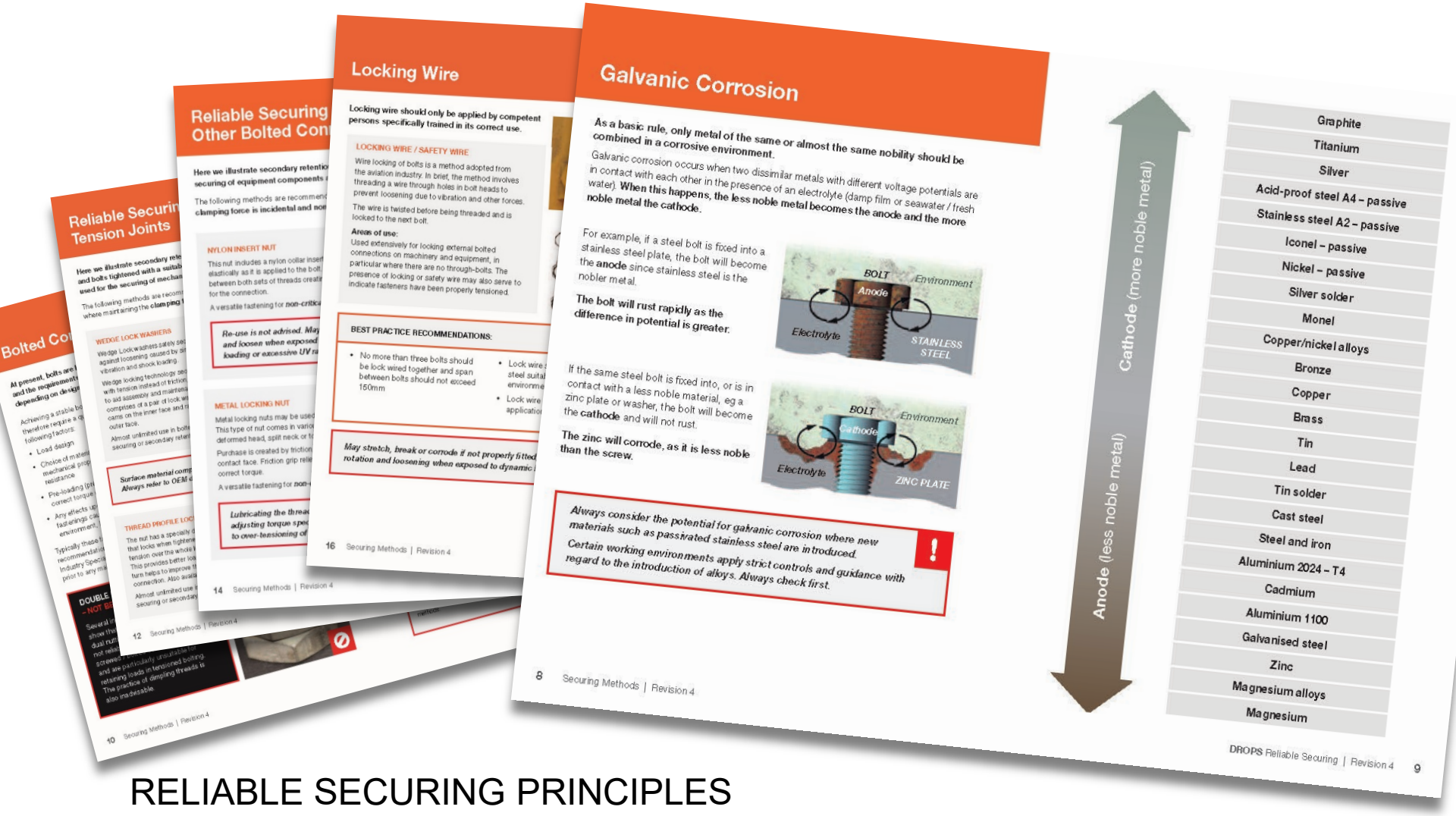
Initial Actions:

- A full DROPS sweep was conducted by rope access personnel to ensure there were no other areas of loose cable rack within the derrick that could pose a dropped object risk.

Consequence			
Actual	None	**Potential**	Fatality



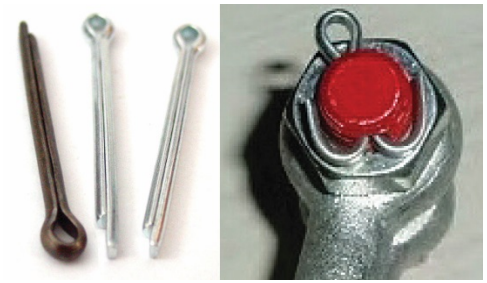
Marathon Oil



RELIABLE SECURING PRINCIPLES

Share our learnings with our strategic partners.

(Still Only) Functional Recommendations



THE HUMBLE BUT CRITICAL SAFETY PIN

Mandatory requirements for correct installation of split / cotter (e.g. C-NLOPB)

…and what happens when we don't.

WHEN YOU SEE THE RFID TAG

It's not just a 3rd Party project. We're all responsible.

Highlights a potential dropped object… get to know how you can help manage the prevention measures.

SAFETY SECURING TRACEABILITY?

Procurement, manufacture, [date of] installation and inspection [criteria] for safety securing devices should be documented.

Reliable Securing Rev04

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- Consolidating what we have regionally and globally
- Broadening the involvement and communications
- Reviewing and improving recommendations and guidance
- Identifying and pursuing new channels and avenues
- Seeking the global DROPS Community consensus

TABLE TOP EXERCISE

Development of an online survey:

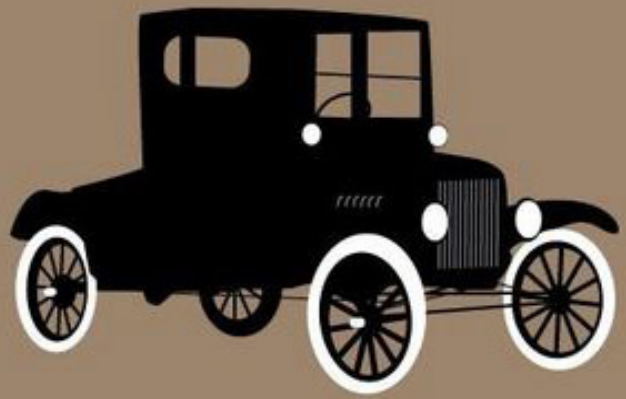
- **What questions should we ask?**
- **How should we present them?**

COMING **TOGETHER** IS A BEGINNING

KEEPING **TOGETHER** IS PROGRESS

WORKING **TOGETHER** IS SUCCESS

- Henry Ford



Thank You!

DROPPED OBJECTS

STILL HARMING
STILL KILLING

NEXT UK FORUM: 17th September
Marcliffe Hotel, Aberdeen

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www.**dropsonline**.org