UAV INSPECTIONS

Honeywell
THE POWER OF CONNECTED

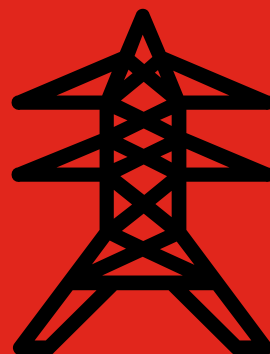# CHALLENGE: SAFETY

Utility Line Workers

TOP 10

most dangerous jobs in US

- Working at heights
- Proximity to high voltage
- Proximity to flares
- Dangerous situations

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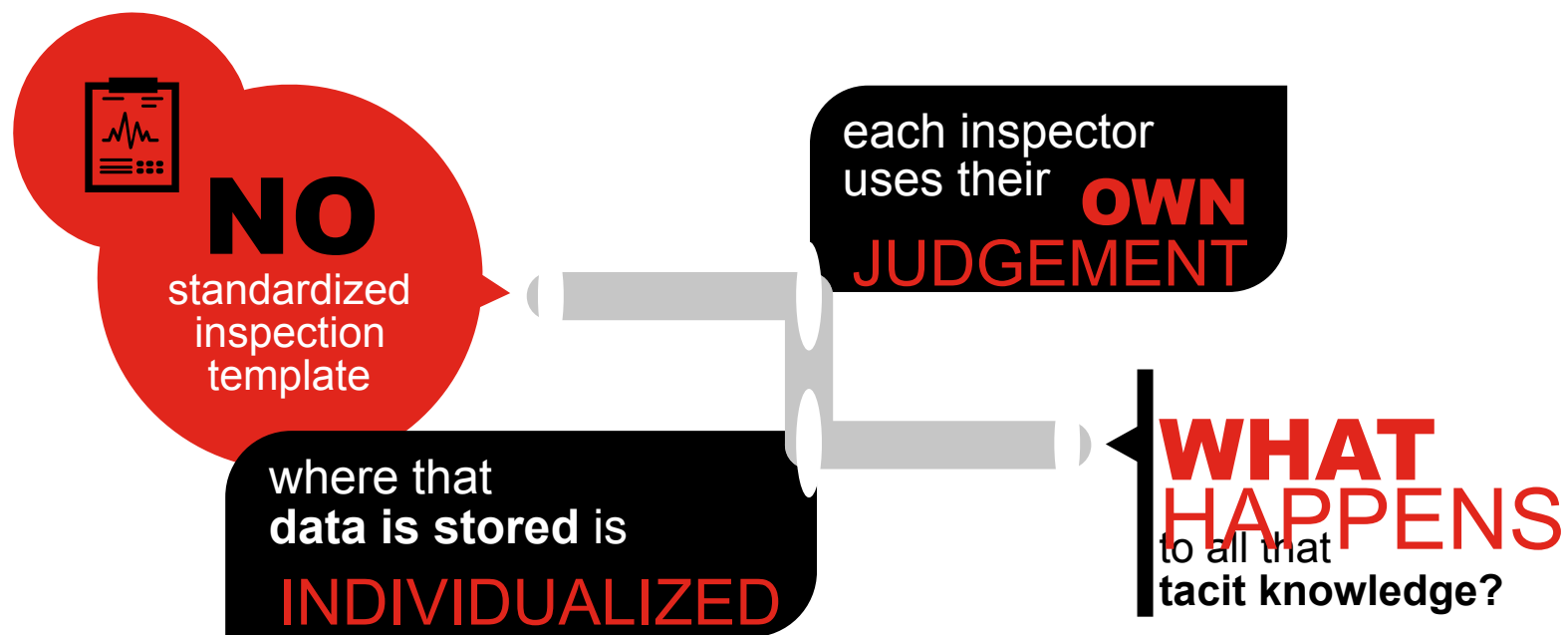
CHALLENGE: COSTS

" **employers spend** **$0.57 MORE** _per hour worked_ **for workers' compensation** compared to other industries.

NRCM (Natural Resources, Construction & Maintenance) Employers
Source: https://www.bls.gov/spotlight/2016/workplace-injuries-and-illnesses-and-employer-costs-for-workers-compensation/pdf/workplace-injuries-and-illnesses-and-employer-costs-for-workers-compensation.pdf

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CHALLENGE:
STANDARDS + KNOWLEDGE

NO standardized inspection template

where that **data is stored** is INDIVIDUALIZED

each inspector uses their **OWN** JUDGEMENT

WHAT HAPPENS to all that **tacit knowledge?**

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INSPECTION DELIVERY SUMMARY

PRE-PLANNING

Autonomous flight plans

Increased safety
Better quality of data
Reduced cost

EFFICIENCY

1. Combined efficiency aspects of helicopter and walking inspection (faster than walking/less staff and better imagery/ safer than helicopter)

2. Reduced walking inspection time from typical two weeks to one week

3. Reduced walking inspection man-power from fifteen to five

4. Data-analytics

FOUNDATION

1. **Integration of data with asset management system**
2. **Repeatability and consistency for future mission inspections**
3. **Predictive analysis baseline for time series analysis**

INSPECTION

100+Miles in 5 days

2000 poles inspected

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ozarks
ELECTRIC
COOPERATIVE

QUESTIONS?

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