

SUPPLY CHAIN VISIBILITY & ENSURING GREATER TRANSPARENCY

SUPPLY CHAIN INNOVATION SUMMIT – JULY 2019

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CUSTOMER EXPERIENCE MANAGER





LIBERTY and InfraBuild's Footprint

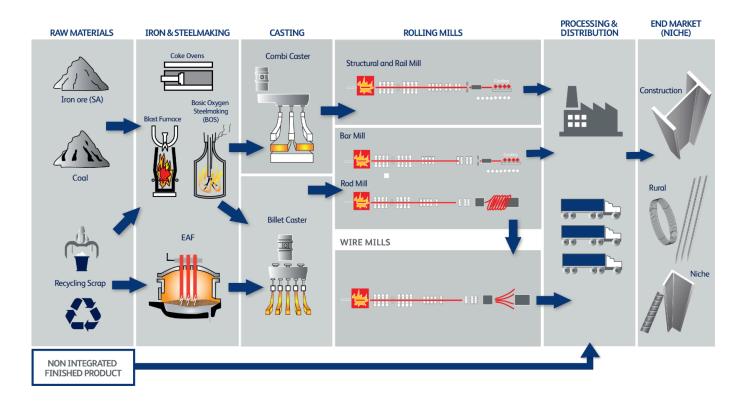


- Australian manufacturer and processor of steel long products
 - EAF and integrated blast furnace production flexibility
 - Australia's largest integrated steelmaker
 - Large product range structural, pipe and tube, reinforcing, rail, wire, fencing and strand products and solutions
- Integrated Australian steel operations
 - Scrap/iron ore → Manufacturing → Distribution
- The leading distributor of metal products in Australia
 - National footprint
 - #1 in general Australian steel distribution
 - #1 in Australian reinforcing
 - #1 in Australian wire

We use our expertise in steel manufacturing, sales, logistics, supply chain and processing to deliver a safe, fast, flexible and reliable product to all Australian customers.

InfraBuild's Integrated Value Chain





Our products

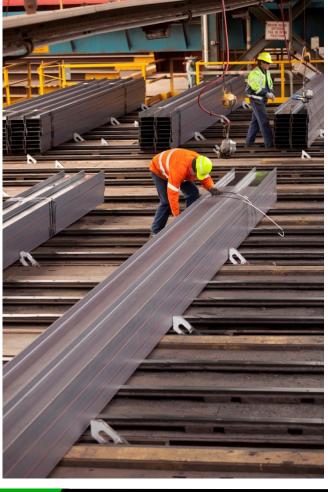
- Long and/or bulky
 - → 6m to 20m
- 1.5~5t per bundle/coil
- ~ 1 million coils/bundles p.a.
- Traceable at a bundle/coil level





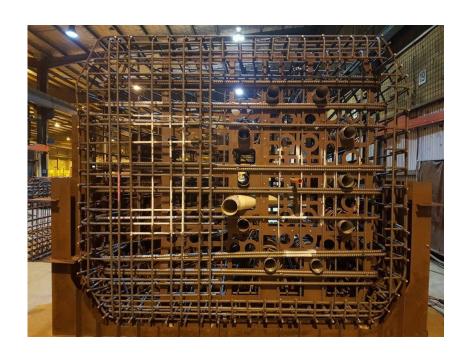






Construction is our key market







Needs of the customer



OUR CUSTOMERS HAVE COMPLEX NEEDS:

- Innovation, Aus certification, compliance, sustainability
- Reliability of delivery through a complex supply chain
- Certainty of cost and on-time delivery
- Scrupulous attention to safety
- Minimise and accurately schedule truck movements
- Most importantly...



...transparency and traceability

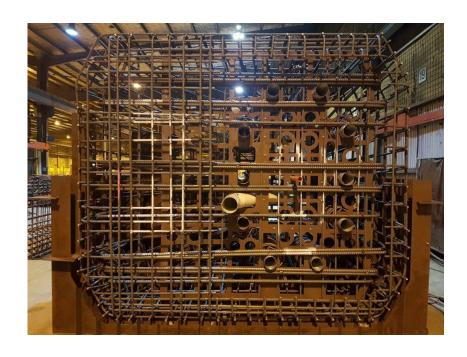


Providing confidence and certainty in the products and services we supply



Whole-of-life in construction?







Technology versus data?













Data – Uniqueness and Serialisation





LIBERTY/Pandrol Case Study



Link to YouTube video —

GS1 standards in action — A supply chain success story in the steel industry —

https://www.youtube.com/watch?v=xqIVPXjGeBQ





ACRS CERT NO. 311021

MICRO-ALLOYED AS/NZS 4671-500N

Deformed Bar Coil 16mm SQ

16785276

HEAT: 211479

GTIN: 99316266013925

Item: 90253



MASS 2.073t







·미친 AustubeMills





LOT **Q131713**

TEM 54988

75X 75X4.0 **DURAGALPLUS 8.0 M** AS/NZS1163-C450L0

UNIT ID **7113228003**

QTY 25 LENGTHS

MASS 1.698 T NOM



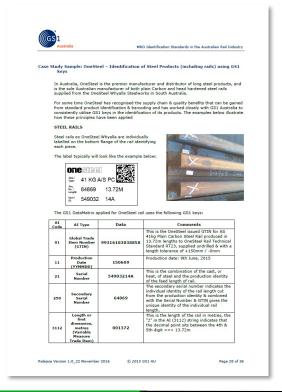
www.infrabuild.com





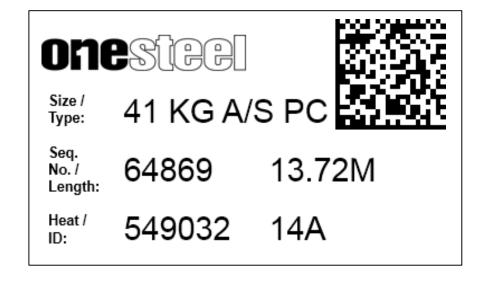


An example of how using an agreed standard for identification can unlock data...





WHAT YOU SEE...





WHAT THE SCANNER SEES

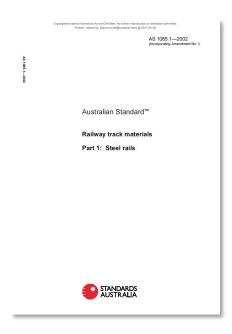


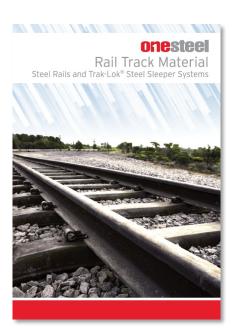


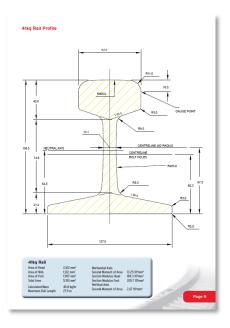
| Al Code | Al Type | Data | Comments |
|------------|---|----------------|---|
| 01 | Global Trade Item Number (GTIN) | 99316183038858 | This is the OneSteel issued GTIN for AS 41kg Plain Carbon Steel Rail produced in 13.72m lengths to OneSteel Rail Technical Standard RT23, supplied undrilled & with a length tolerance of +150mm / -0mm |
| 11 | Production Date (YYMMDD) | 150609 | Production date: 9th June, 2015 |
| 21 | Serial Number | 54903214A | This is the combination of the cast, or heat, of steel and the production identity of the feed length of rail. |
| 250 | Secondary Serial Number | 64869 | The secondary serial number indicates the individual identity of the rail length cut from the production identity & combined with the Serial Number & GTIN gives the unique identity of the individual rail length. |
| 3112 | Length or first dimension, metres (Variable Measure Trade Item) | 001372 | This is the length of the rail in metres, the "2" in the AI (3112) string indicates that the decimal point sits between the 4th & 5th digit ==> 13.72m |



WHAT THE SCANNER UNLOCKS

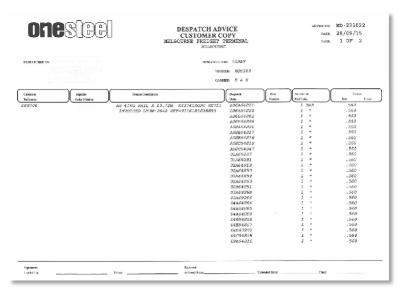


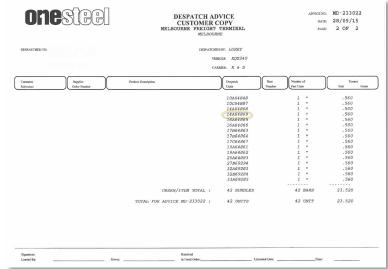






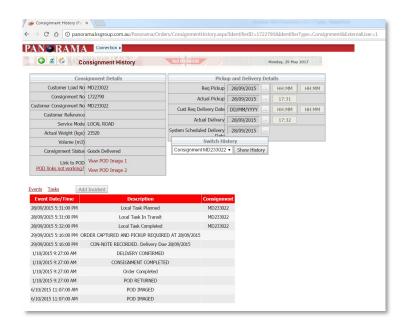
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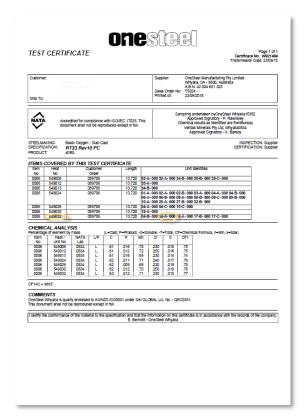






WHAT THE SCANNER UNLOCKS





What are the flow-on benefits?



Electronic Data Sharing

Master, Transactions & Physical Events

Globally Unique Identification Keys

Automatic Data Capture

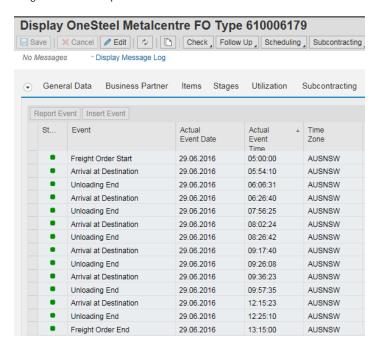
Data – good quality

based on Global Data Standards

Electronic Data Sharing – The results



Freight Order Event Updates in TMS:

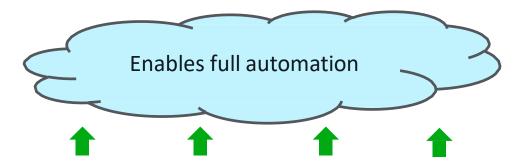


- Example of live messaging using the GS1 TI and TS messages
- Real-time, triggered by truck telematics/GPS



Where to next...





Electronic Data Sharing

Master, Transactions & Physical Events

Globally Unique Identification Keys

Automatic Data Capture

Data – good quality

based on Global Data Standards

Next steps / Challenges / Learnings



- Creating the complete 'digital' twin of our products and services
- Location Master Data replicate learnings from product identification
- Open versus Closed data getting the right balance around confidentiality and transparency
- Who owns the data?
- Collaboration is critical!
- Patience is a virtue

The end game



Greenland Centre – Repurposing a 1966 steel structure





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a company of LIBERTY