



# Navigating the path to decarbonization: Unlocking insights with Fastmarkets' 67.5% Fe Pellet Feed Indices

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# Agenda



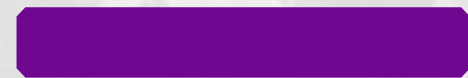
- 01** Why do we need an independent 67.5% Fe pellet feed index?
- 02** Fastmarkets methodology for an effective pricing mechanism
- 03** Q&A



FASTMARKETS



# Why do we need an independent 67.5% Fe pellet feed index?



# Fastmarkets iron ore indices coverage



## 1. Why do we need an independent 67.5% Fe pellet feed index?

- More than just Fe adjustment
- Thermometer of market dynamics: pellet feed premium

## 2. Fastmarkets methodology for an effective pricing mechanism

- Structure of an effective pricing mechanism
- Fastmarkets methodology & pellet feed index liquidity
- Support from market participants

### *Daily publication*

#### **Seaborne fines & lump**

- MB-IRO-0008, Iron ore 62% Fe fines, cfr Qingdao, \$/tonne – May 2008
- MB-IRO-0144, Iron ore 62% Fe low-alumina fines, cfr Qingdao, \$/tonne – August 2018
- MB-IRO-0015, Iron ore 58% Fe fines, cfr Qingdao \$/tonne – August 2011
- MB-IRO-0016, Iron ore 58% Fe fines high-grade premium, cfr Qingdao, \$/tonne – August 2011
- MB-IRO-0017, Iron ore 58% Fe fines high-grade premium index, cfr Qingdao, \$/tonne – August 2011
- MB-IRO-0009, Iron ore 65% Fe Brazil-origin fines, cfr Qingdao, \$/tonne – December 2013
- MB-IRO-0010, Iron ore 63% Fe Australia-origin lump ore premium, cfr Qingdao, US cents/dmtu – May 2013

#### **Portside mid-grade Fines**

- MB-IRO-0011, Iron ore 62% Fe fines, fot Qingdao, yuan/wet tonne – January 2014
- MB-IRO-0022, Iron ore 62% Fe fines, fot Qingdao, \$/tonne conversion – January 2014

#### **Value-In-Use**

- MB-IRO-0018, Iron ore 62% Fe fines, % Fe VIU, cfr Qingdao, \$/tonne – July 2012
- MB-IRO-0019, Iron ore 65% Fe fines, % Fe VIU, cfr Qingdao, \$/tonne – July 2012
- MB-IRO-0020, Iron ore 62% Fe fines, % Si VIU, cfr Qingdao, \$/tonne – December 2013
- MB-IRO-0021, Iron ore 62% Fe fines, % Al<sub>2</sub>O<sub>3</sub> VIU, cfr Qingdao, \$/tonne – November 2014
- MB-IRO-0024, Iron ore 62% Fe fines, 0.01% P VIU, cfr Qingdao, \$/tonne – November 2015

#### **Concentrate & pellet feed**

- MB-IRO-0089, Iron ore 65% Fe concentrate premium, cfr Qingdao, \$/tonne – April 2023
- MB-IRO-0013, Iron ore 65% Fe concentrate, cfr Qingdao, \$/tonne – September 2012
- **MB-IRO-0087, Iron ore 67.5% Fe pellet feed premium, cfr Qingdao, \$/tonne – February 2023**
- **MB-IRO-0088, Iron ore 67.5% Fe pellet feed, cfr Qingdao, \$/tonne – February 2023**

### *Weekly publication*

#### **Blast furnace pellet & DR-grade pellet**

- MB-IRO-0012, Iron ore 65% Fe blast furnace pellet, cfr Qingdao, \$/tonne – April 2012
- MB-IRO-0177, Iron ore 65% Fe pellet premium over 65% Fe fines, cfr Qingdao, \$/tonne – May 2021
- MB-IRO-0186, Iron ore DR-grade pellet premium indicator, \$/tonne – November 2022

### *Monthly publication*

#### **DR-grade pellet**

- MB-IRO-0077, Iron ore DR-grade pellet premium, quarterly contract, \$/tonne – February 2017



# Launch of 67.5% Fe pellet feed indices

Fastmarkets launched two daily indices for 67.5% Fe iron ore pellet feed products on CFR China basis on February 1<sup>st</sup>, 2023

Two daily index:

Iron ore 67.5% Fe pellet feed premium, cfr Qingdao, \$/tonne [MB-IRO-0187] → tracks premium

Iron ore 67.5% Fe pellet feed, cfr Qingdao, \$/tonne [MB-IRO-0188] → tracks outright price

Specifications:

Index	Origin	Fe	SiO2	Al2O3	P	S	Titanium	Moisture	Size
67.5% Fe Pellet Feed	All origin	67.5% (66-70%)	3% (Max 6%)	0.5% (Max 1.5%)	0.02% (Max 0.06%)	0.03% (Max 0.10%)	0.05% (Max 0.30%)	8% (Max 11%)	<0.15mm: >80%

Quantity: Min 10,000 tonnes

Location: cfr Qingdao – normalized for any Chinese mainland seaport

Timing: Delivery within 8 weeks

Unit: USD/tonne

Publication: Daily at 6.30pm Singapore time

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# Concentrate pricing over past 10 years



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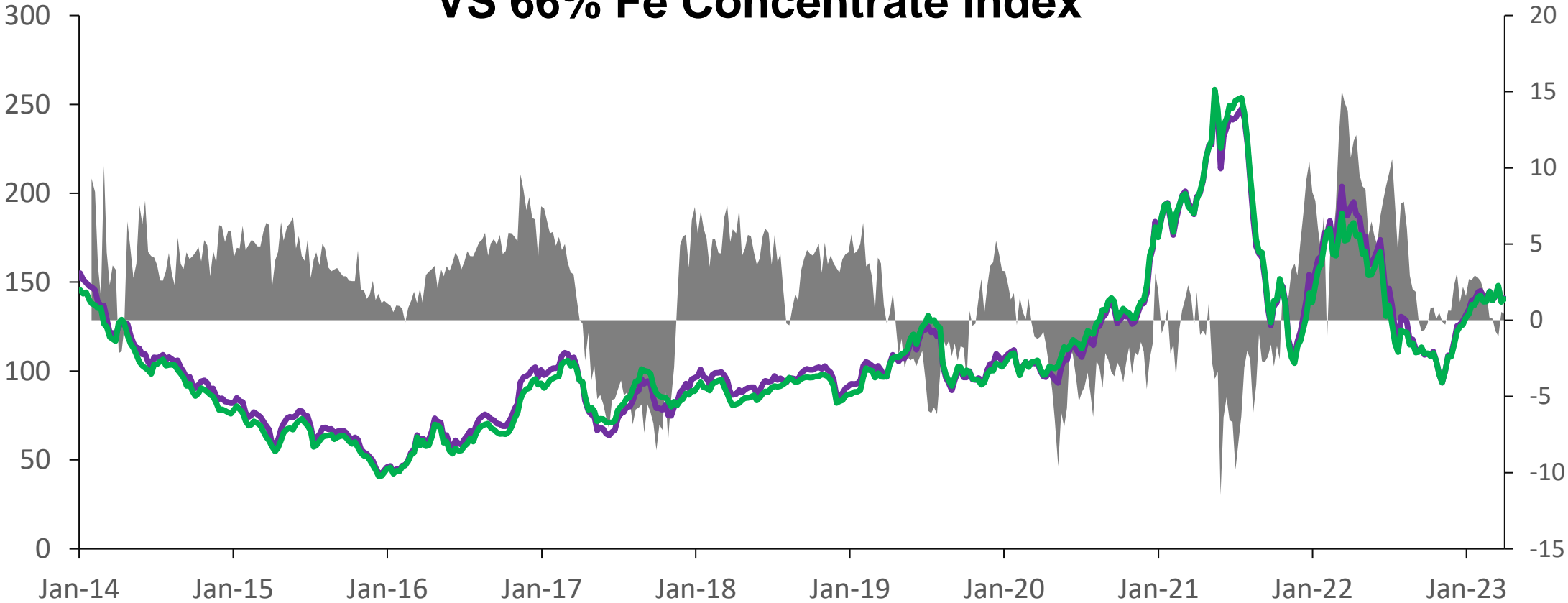
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Fastmarkets launched 66% Fe Concentrate index in 2012

### Common misunderstanding:

$$\text{MB66 Concentrate index} = \text{MB65} + 1\% * \text{Fe VIU}$$

### Fastmarkets' iron ore 65% Fe fines index VS 66% Fe Concentrate index



■ MB66 Concentrate/MB65 indices differential [RHS]

— MB66 Concentrate Index

— MB65 Index





# Concentrate pricing over past 10 years

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### Spot market concentrate pricing:

MB65 index (with Fe adjustment) of QP month + premium/discount

constantly changing



premium of ~\$15/t

discount of ~\$11/t

Why does the premium/discount fluctuate so much?

→ The way these two product types are predominantly consumed

**MB65: High-grade fines IOCJ** VS **MB66: Concentrates (including pellet feed)**

- Demand for high-grade fines; Demand for sintering concentrate, pellet feed
- Supply of high-grade fines; Supply of seaborne & China's domestic concentrate



# Concentrate pricing over past 10 years

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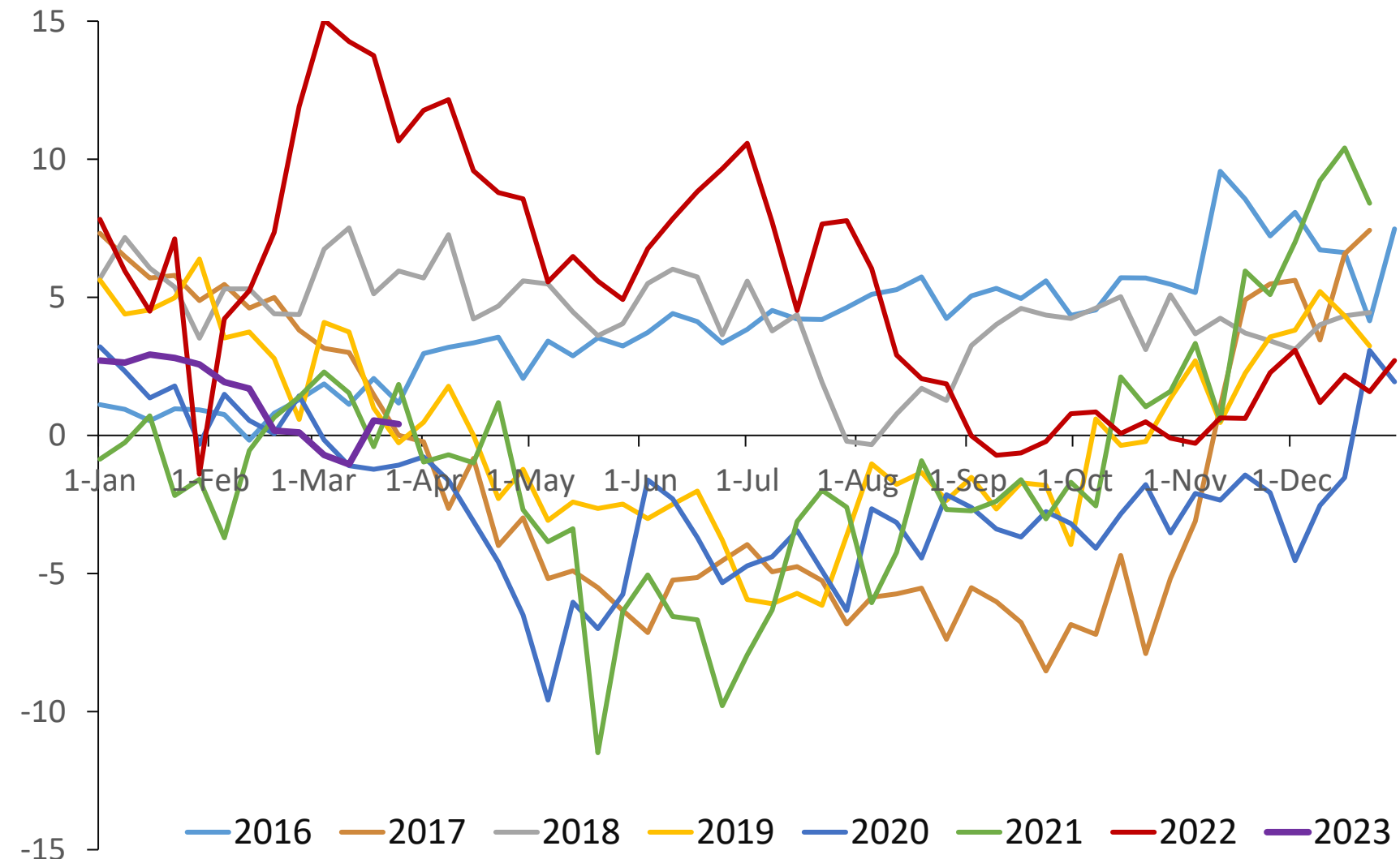
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## Spot market concentrate pricing:

MB65 index (with Fe adjustment) of QP month + [premium/discount](#)

**Fastmarkets' 66% Fe Concentrate index/65% Fe Fines index differential**







# Pellet feed pricing development

Fastmarkets launched 67.5% Fe pellet feed indices in February 2023

## Common misunderstanding:

$$67.5\% \text{ Fe pellet feed price} = \text{MB65} + 2.5\% * \text{Fe VIU}$$

## Spot market pellet feed pricing:

$$\text{MB65 index of QP month} + 2.5\% * \text{Fe VIU} + \text{pellet feed premium}$$

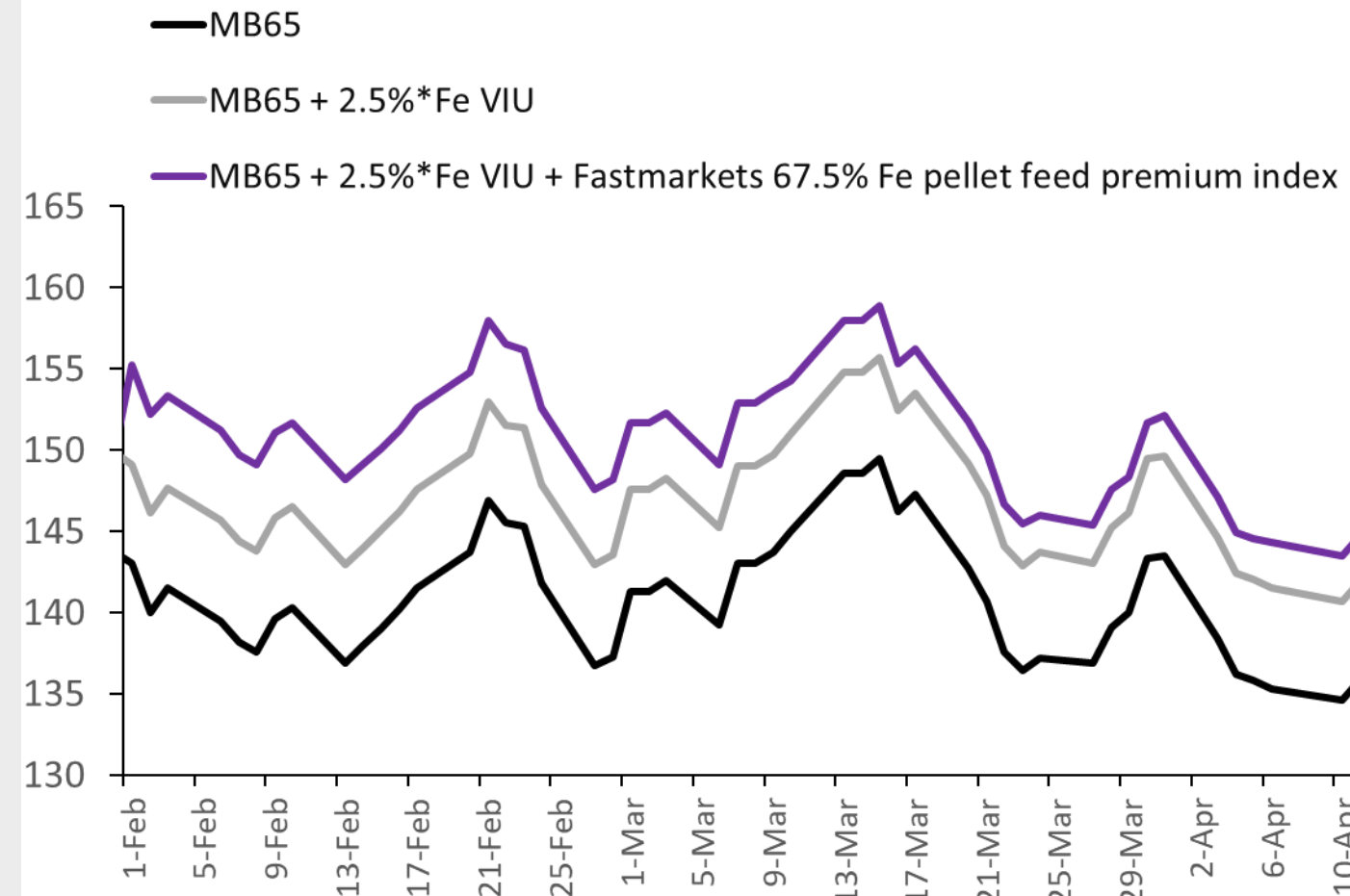
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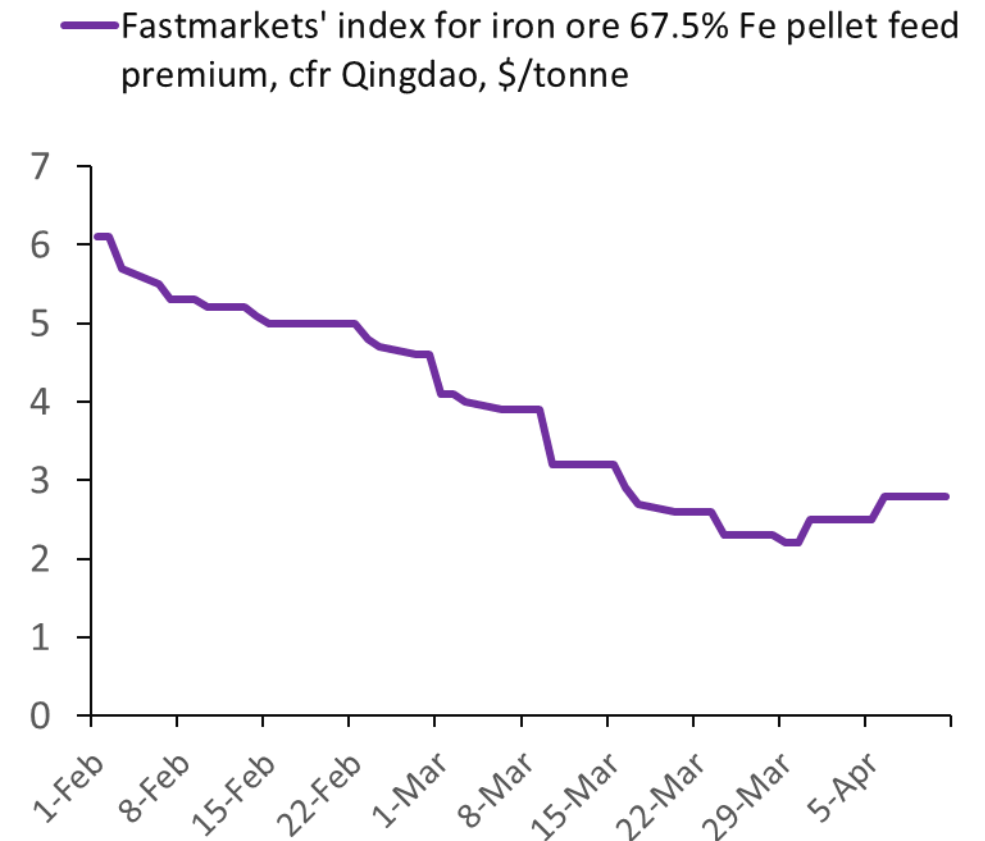
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### 67.5% Fe Pellet Feed Price



### Fastmarkets' 67.5% Fe pellet feed premium index



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# Fastmarkets methodology for an effective pricing mechanism



# Achieve fair value through an effective pricing mechanism



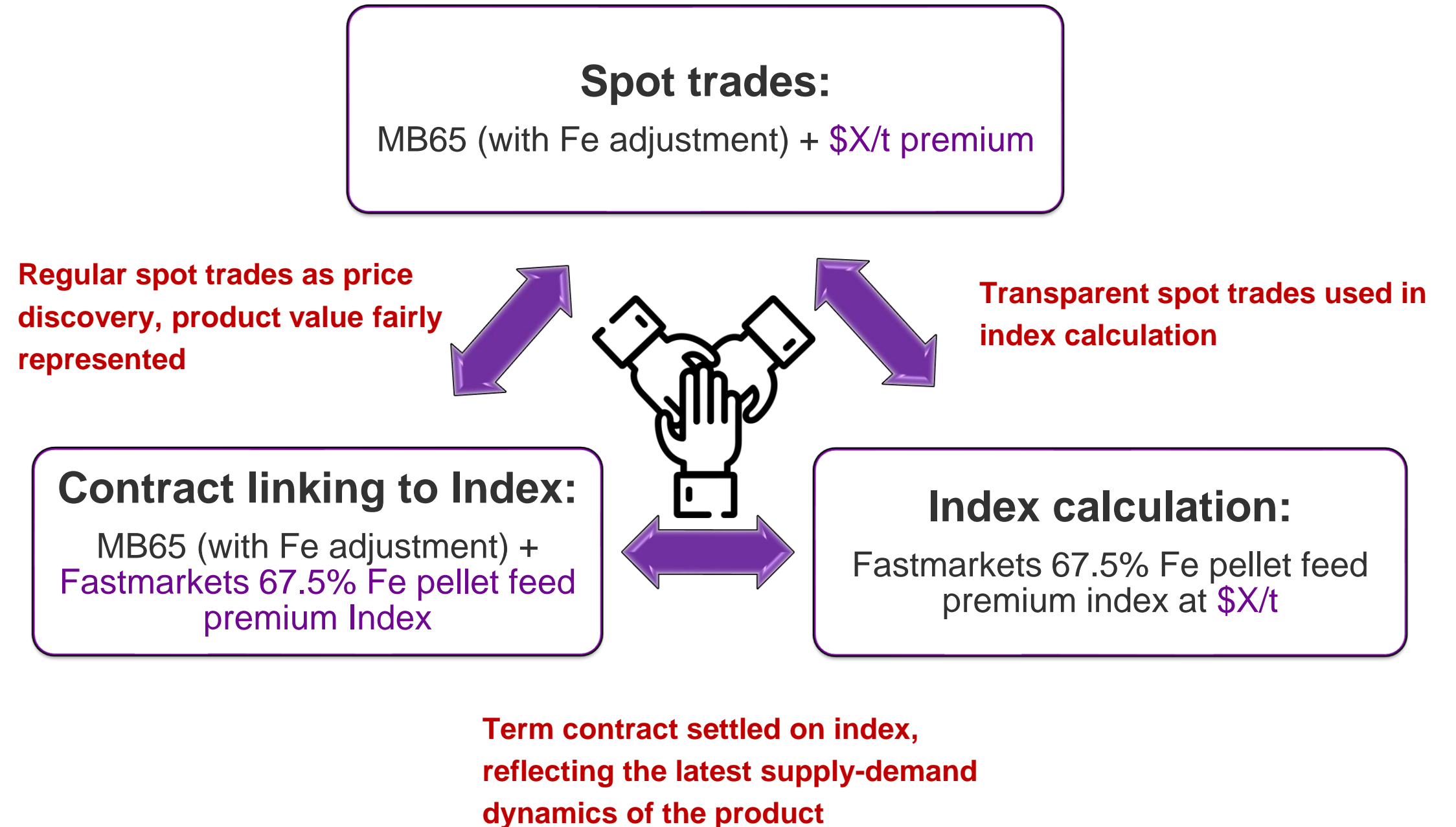
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**Spot index linked pricing mechanism structure:**



# Fastmarkets iron ore indices methodology



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- **Fairness**

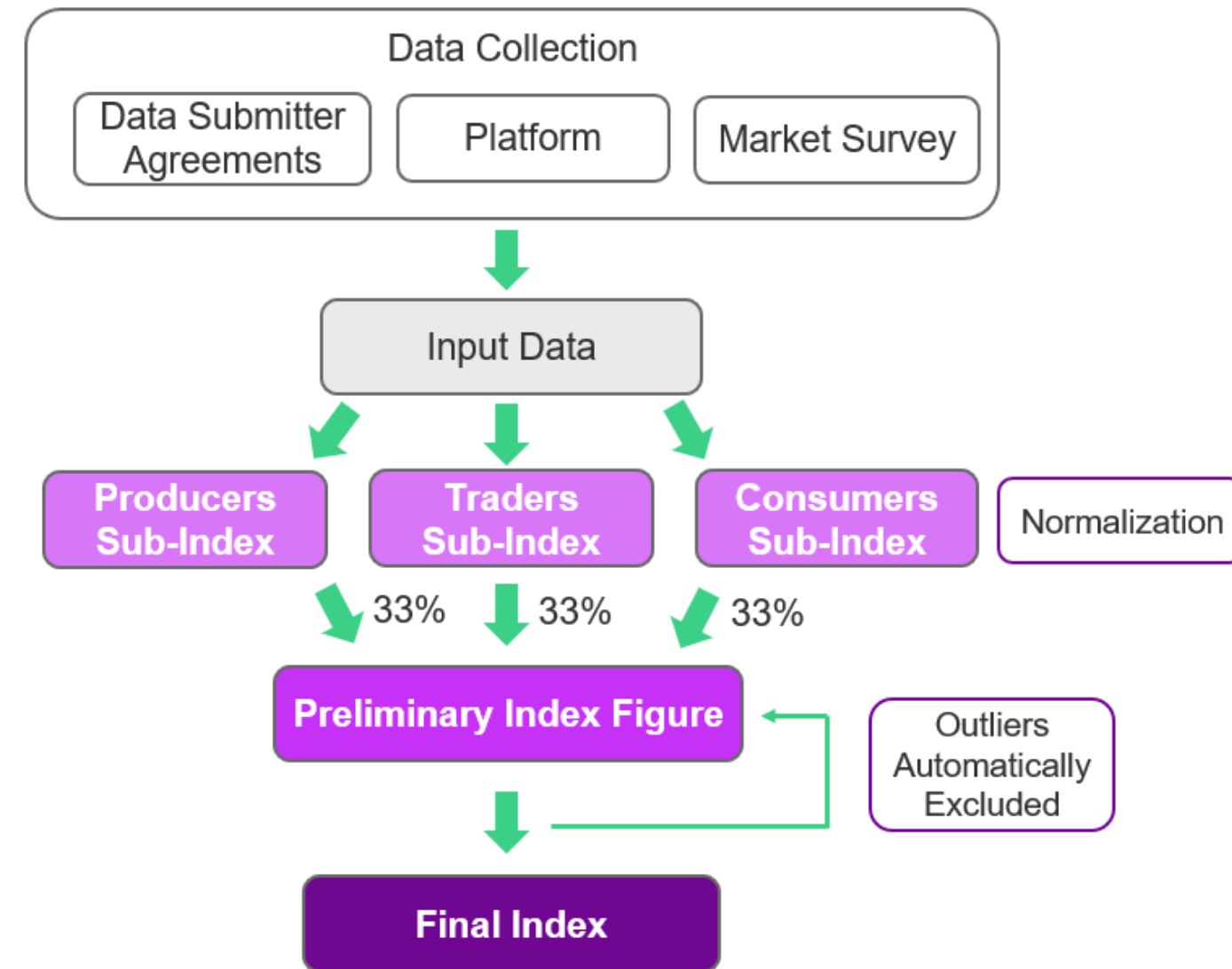
Producers, traders, consumers sub-index

- **Statistically-driven**

Normalization: prices are normalized to base specification using in-house developed coefficients based on regression analysis

- **Transaction-aligned**

Tonnage-weighted average calculation  
Transaction data: full tonnage  
Non-transaction data: minimum tonnage (10kt)







# Fastmarkets BMR-regulated PRA Benchmark Integrity

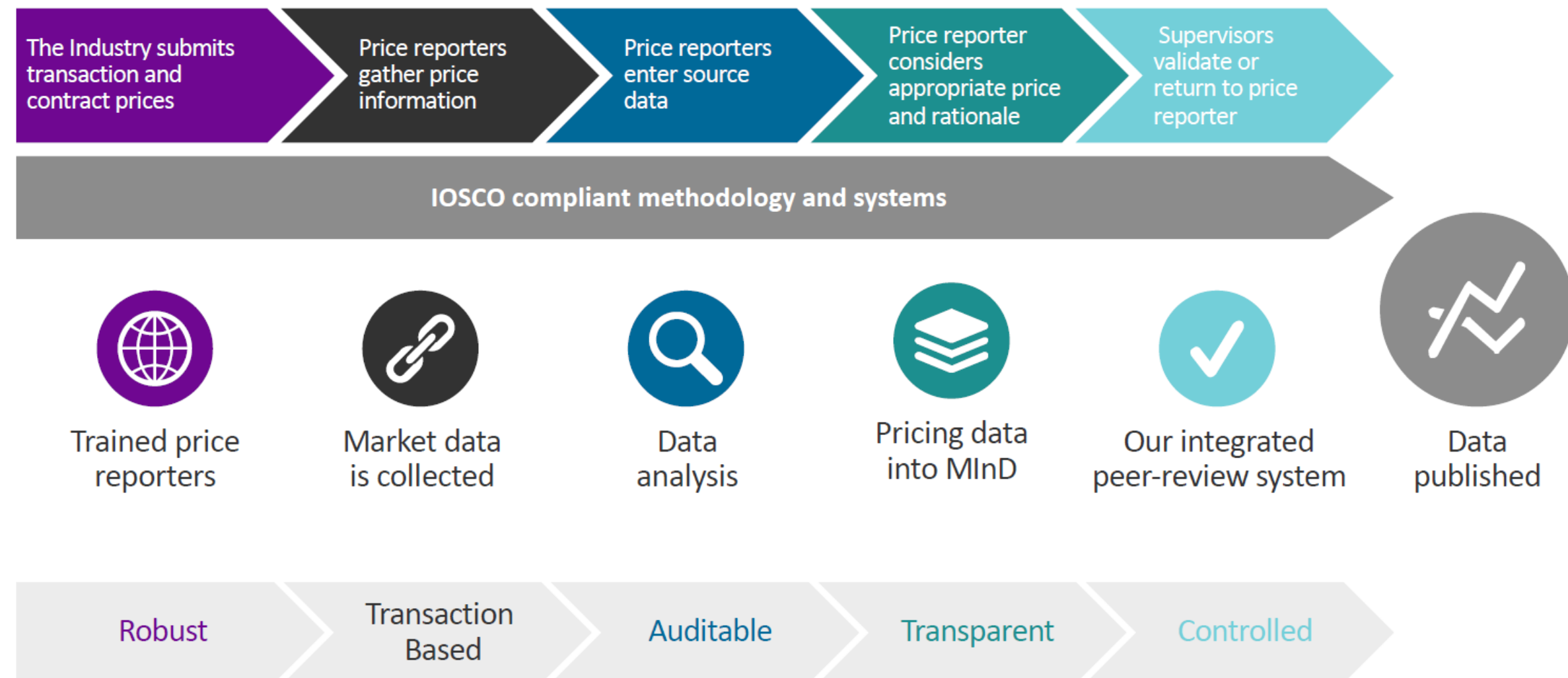
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- **Corporate structure & data systems**
- **Annual external audit – in line with IOSCO’s Price Reporting Agency principles**
- **Authorized under EU Benchmark Regulation (BMR) in Finland since March 2021**



# Index liquidity & statistics



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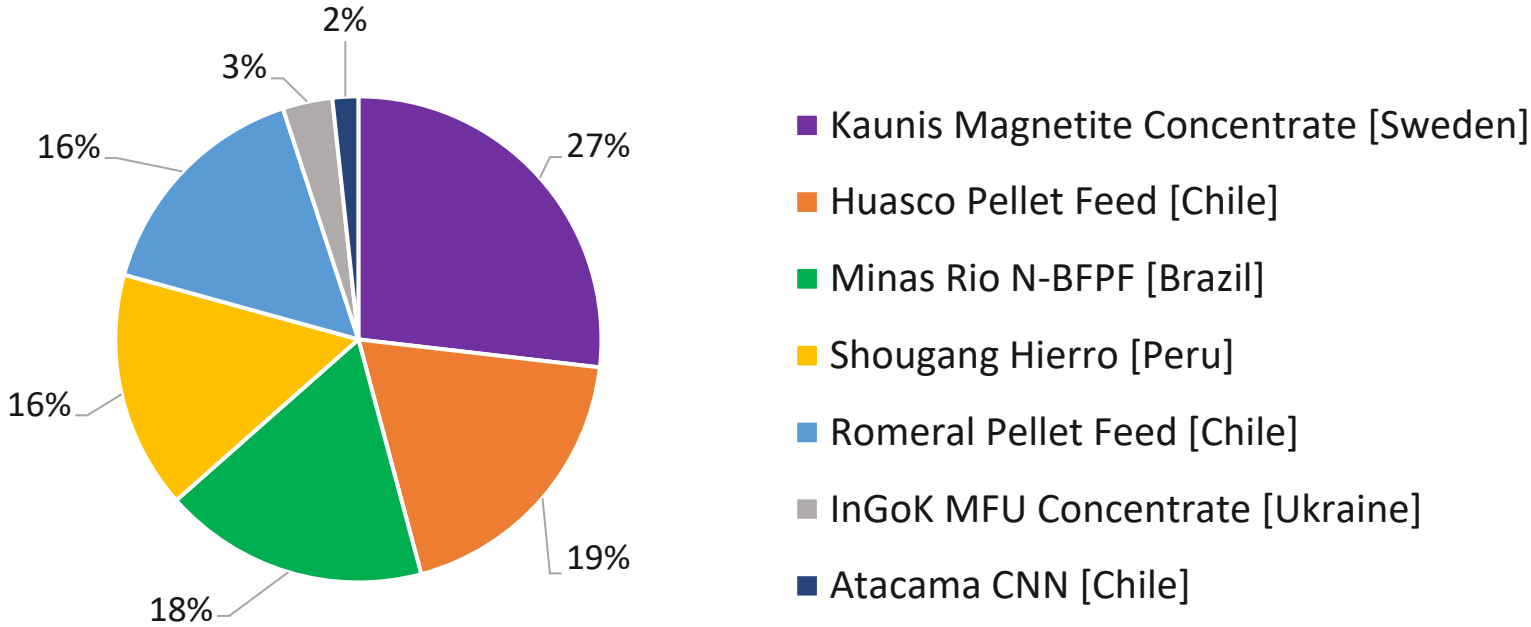
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**Index:** Iron ore 67.5% Fe pellet feed premium, cfr Qingdao, \$/tonne [MB-IRO-0187]

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Data breakdown:

**Pellet feed brands used in the calculation of 67.5% pellet feed premium index, Feb-Mar 2023**



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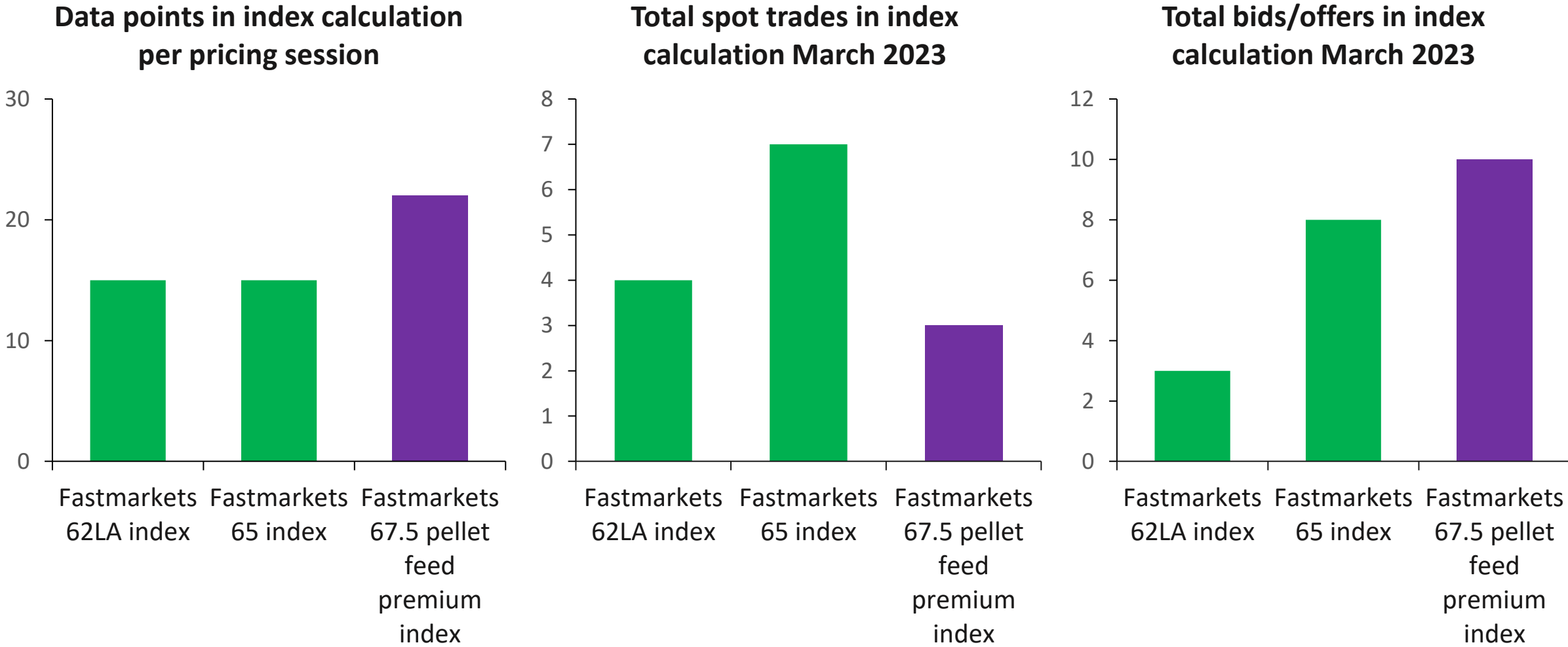
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Index liquidity comparison with other key benchmark indexes:

## MB62LA index VS MB65 index VS MB67.5 pellet feed premium index



# An effective pricing mechanism needs support from the market

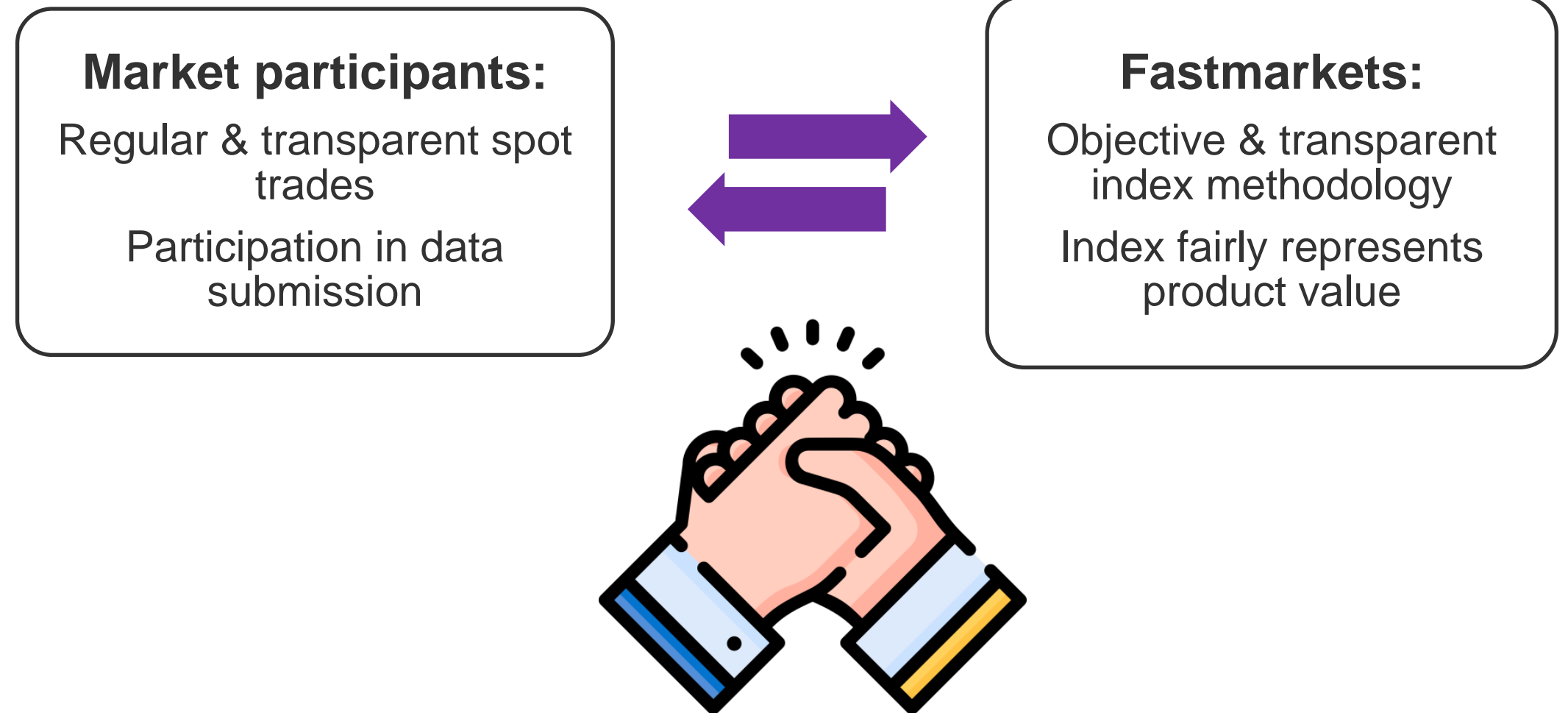


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# Q&A



Please send in the Q&A box

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# Fastmarkets White Paper

## Understanding the high-grade iron ore market



<https://insights.fastmarkets.com/understanding-the-high-grade-iron-ore-market/>

### Contents

#### An overview of the high-grade iron ore market

- 3 | Grade
- 4 | Form
- 5 | Markets

#### Value dynamics: price drivers in the high-grade iron ore segment

- 6 | Drivers of grade differentials
- 8 | Direct charge premiums: lump & pellet
- 9 | Concentrates vs sinter fines differentials
- 10 | High-grade market dynamics in 2020

#### Looking forward: the future of the high-grade iron ore market

- 12 | Current dynamics and short-term outlook
- 13 | Long-term dynamics

#### Pricing of high-grade products

- 16 | Evolution of indexation in the high-grade segment
- 18 | Fastmarkets' indices for high-grade product types and associated services

- 
- 20 | *Fastmarkets Consulting global iron ore case study: How to optimize today's pricing and tomorrow's investments*



# Thank You

# Fastmarkets

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