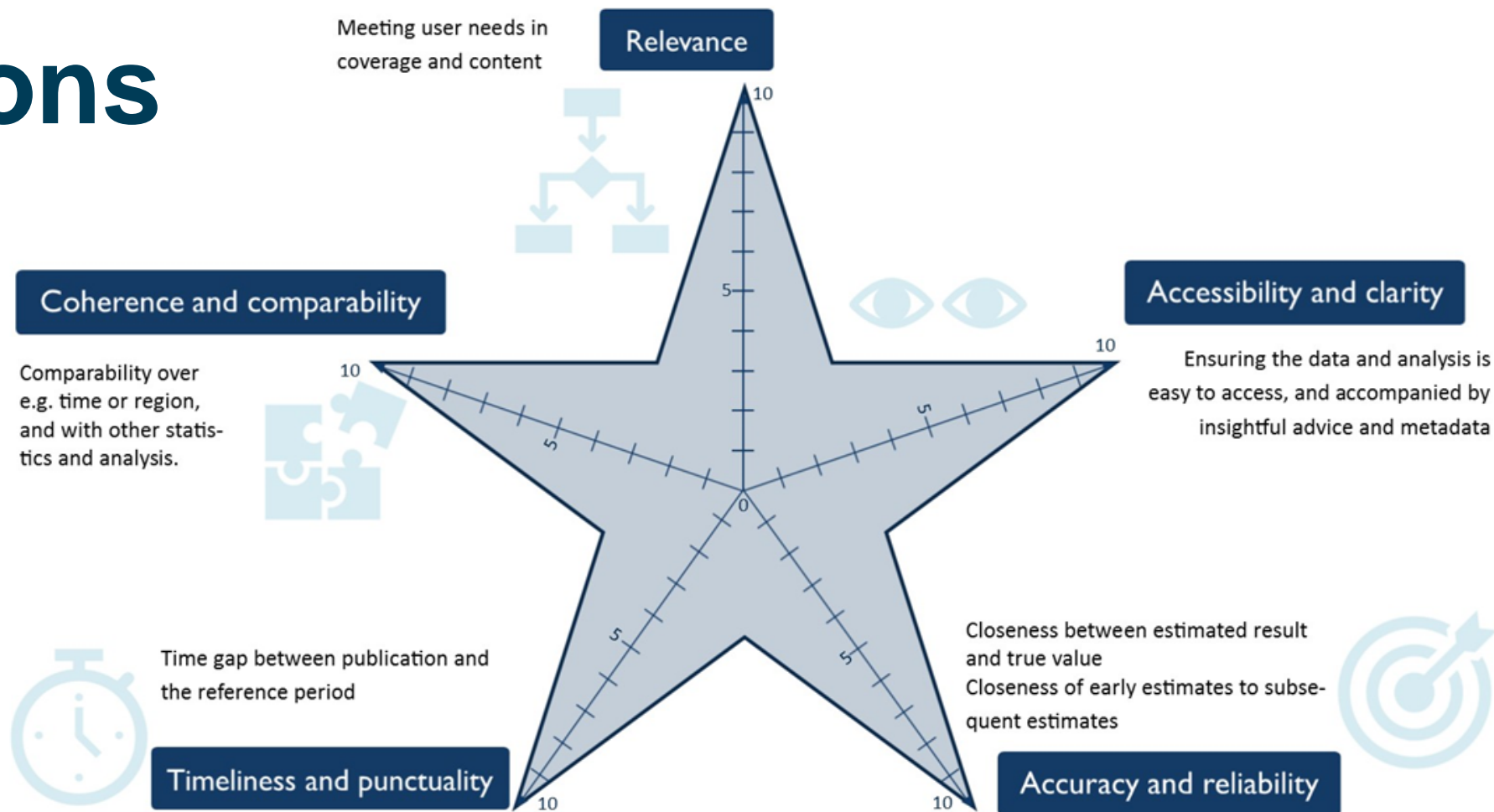


Use of novel data sources for consumer prices

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Quality dimensions



What are alternative data sources?

- Scanner data
- Web scraped data
- Used in conjunction with data as currently collected

Why use alternative data sources?

- Improved coverage – for example regional
- High frequency of collection
- Reduced burden
- More granular information (eg expenditure)

Comparison of different data sources

| <i>Data dimension</i> | Traditional | Scanner data | Web scraping |
|---------------------------|---------------------------------------|---|--------------------------------------|
| <i>Data acquisition</i> | Manual | Automated | Automated |
| <i>Completeness/scope</i> | Sample items from sample of retailers | All transactions (census) from medium to large retailers | Bulk or sample from online retailers |
| <i>Metadata</i> | Item description + some attributes | Item description + (some) attributes Backseries may be available | Item description + attributes |
| <i>Quantity data</i> | None | Quantities sold | None |
| <i>Timing</i> | Single collection day | Daily | Daily/weekly |

Ensuring quality of the data

- Initial data checks
- Standardising the data
- Monitoring the regular feeds
- Data sharing agreements
- Quality Assurance of Admin Data (QAAD)

Ensuring quality of the outputs

- Robust statistical systems
- Research into new methods
- Impact analysis
- Incorporate QA into regular monthly production
- Advisory panels – stakeholder and technical
- International best practice