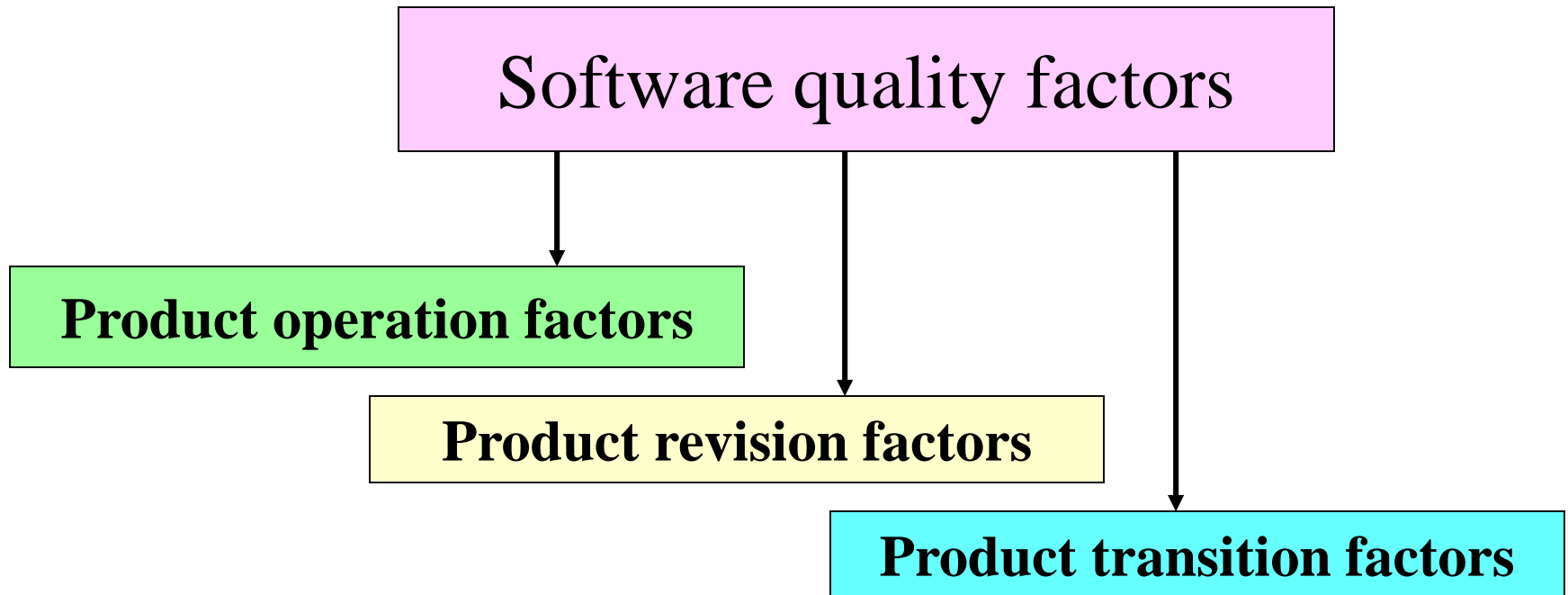


Software quality factors

- The need for comprehensive software quality requirements
- Classification of requirements into software quality factors
- Product operation factors
- Product revision factors
- Product transition factors
- Alternative models of software quality factors
- Who is interested in defining quality requirements?
- Software compliance with quality factors

McCall's software quality factors model



Product operation factors

- **Correctness**
- **Reliability**
- **Efficiency**
- **Integrity**
- **Usability**

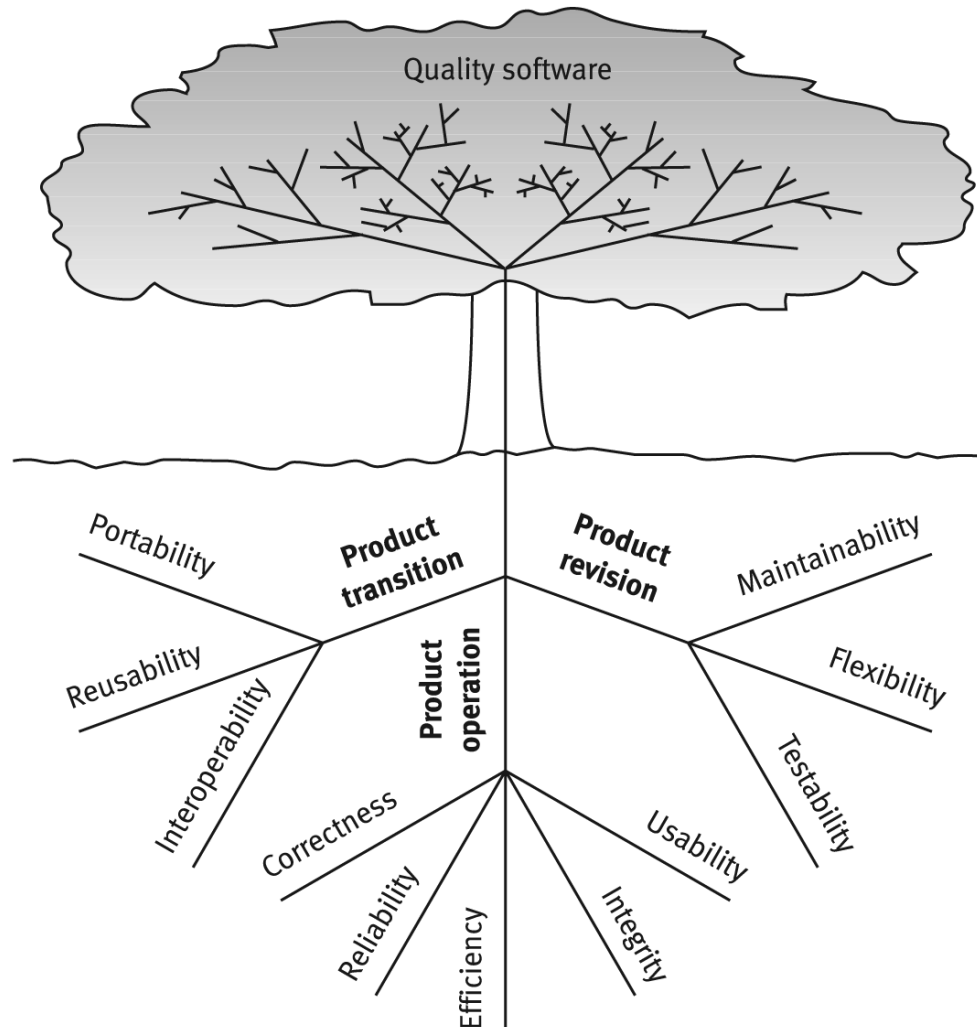
Product revision factors

- Maintainability
- Flexibility
- Testability

Product transition factors

- Portability
- Reusability
- Interoperability

McCalls factor model tree



McCall's factor model and alternative models

| No. | Software quality factor | McCall's classic model | Alternative factor models | |
|-----|-------------------------|------------------------|---------------------------|--------------------------|
| | | | Evans and Marciniak model | Deutsch and Willis model |
| 1 | Correctness | + | + | + |
| 2 | Reliability | + | + | + |
| 3 | Efficiency | + | + | + |
| 4 | Integrity | + | + | + |
| 5 | Usability | + | + | + |
| 6 | Maintainability | + | + | + |
| 7 | Flexibility | + | + | + |
| 8 | Testability | + | | |
| 9 | Portability | + | + | + |
| 10 | Reusability | + | + | + |
| 11 | Interoperability | + | + | + |
| 12 | Verifiability | | + | + |
| 13 | Expandability | | + | + |
| 14 | Safety | | | + |
| 15 | Manageability | | | + |
| 16 | Survivability | | | + |