



## Developer Metrics Transcript

SEPMs are not expected to be developers, but having an understanding of the pros and cons of modern programming languages, their features and how they can best be used will allow SEPMs to add value to the design and development process.

The second major contribution that a SEPM can provide is in monitoring and reporting. Evaluating the performance and productivity of developers is a key deliverable, not just for stakeholders but for developers as well (Forsgren et al, 2021). Traditionally productivity may have been evaluated via simple measures such as thousands of lines of code (KLOC) but this and other similar simplistic indicators have long been debunked for not having any real value as estimates. This is especially true in modern systems, where large proportions of modern applications consist of shared and/ or open source libraries. Forsgren et al (2021) present a number of factors that can be evaluated as part of a set of metrics that should be used as indicators of productivity. These include:

- Satisfaction and wellbeing (of developers).
- Quality and impact (of deliverables).
- Activity (such as design and coding, continuous integration and deployment, and operational tasks).
- Communication and collaboration.
- Efficiency and flow.

These factors are gathered together into a framework known as SPACE (Forsgren, 2021).