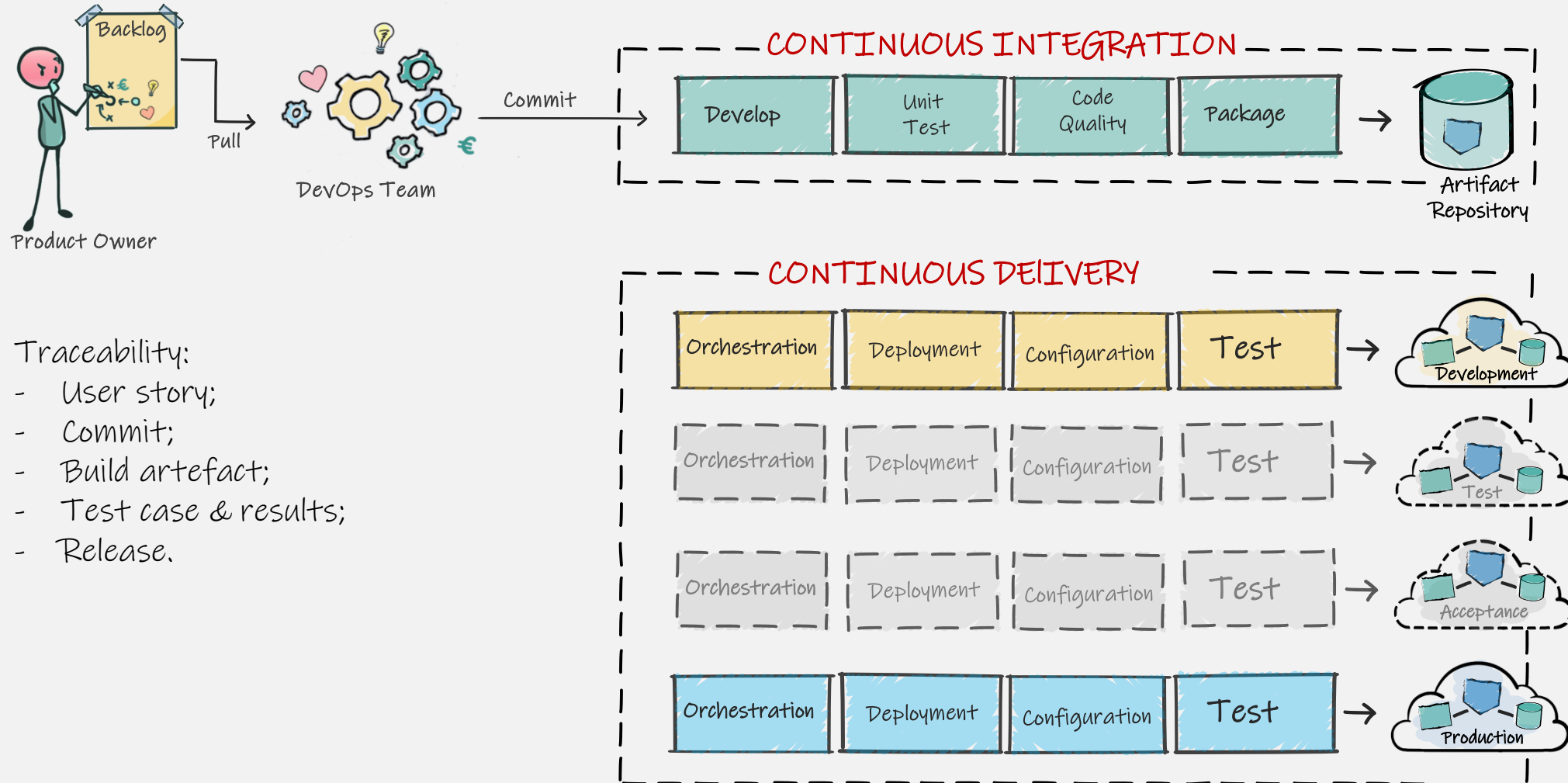
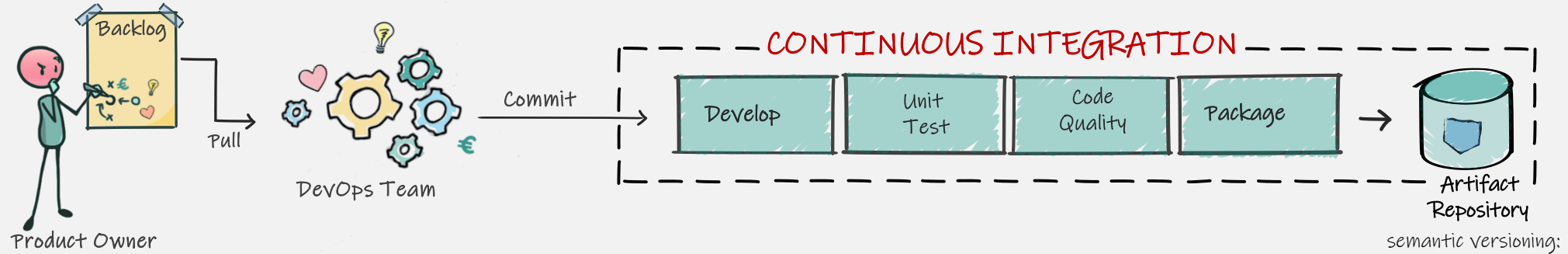


# CICD Overview



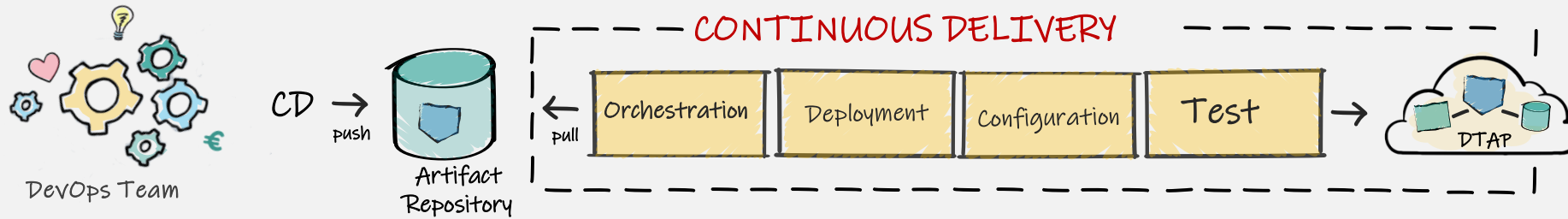
# Continuous Integration



## Key principles

1. Commit to the mainline
2. Maintain a single-source repository
3. Automate the build
4. Make builds self-testing
5. Build quickly (fast feedback)
6. Fix broken builds immediately
7. Test in a clone

# Continuous Delivery

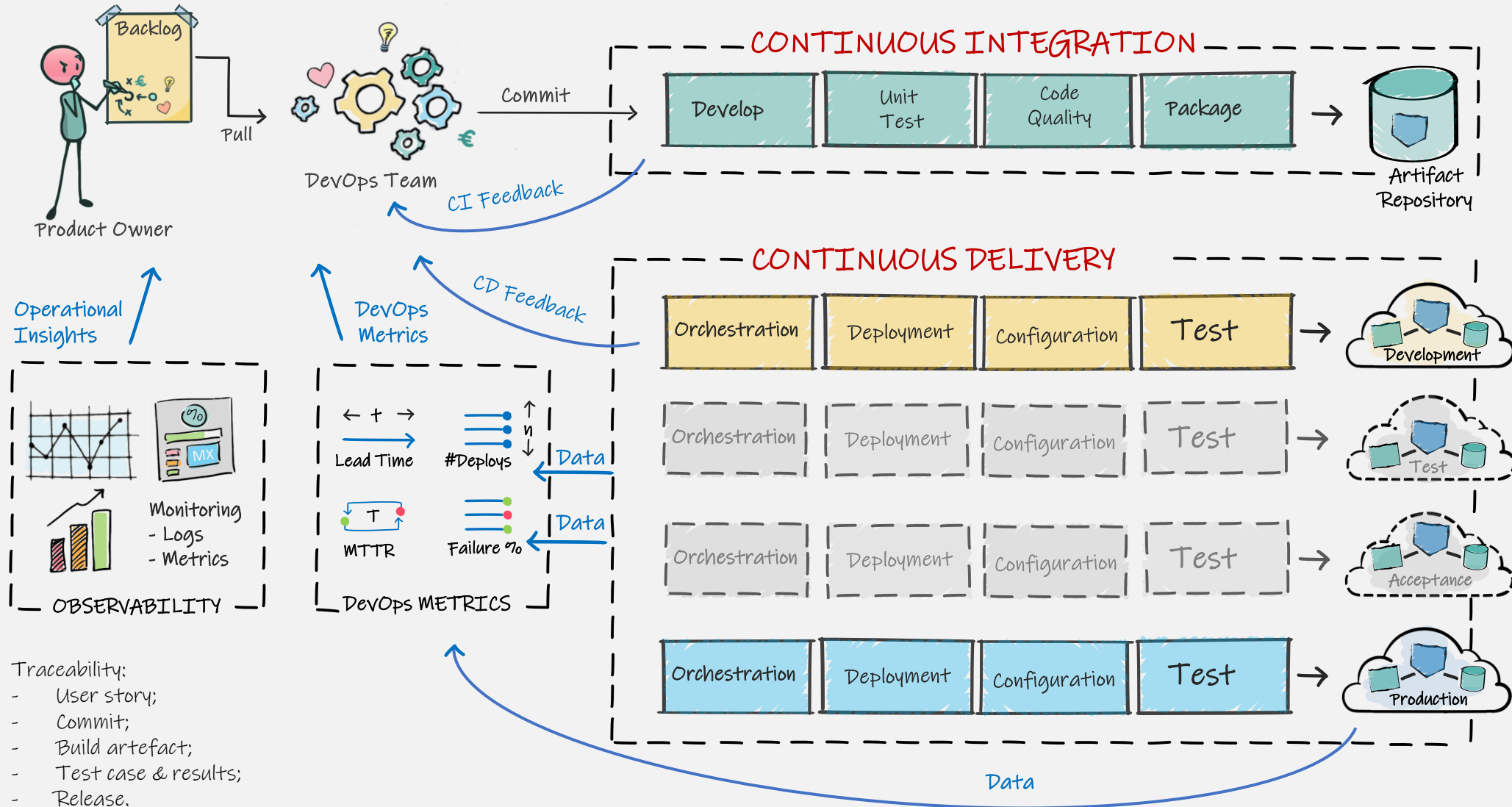


## Key principles

1. Build quality in
2. Work in small batches
3. Computers perform repetitive tasks, people solve problems
4. Relentlessly pursue continuous improvement
5. Everyone is responsible (end-to-end responsibility)

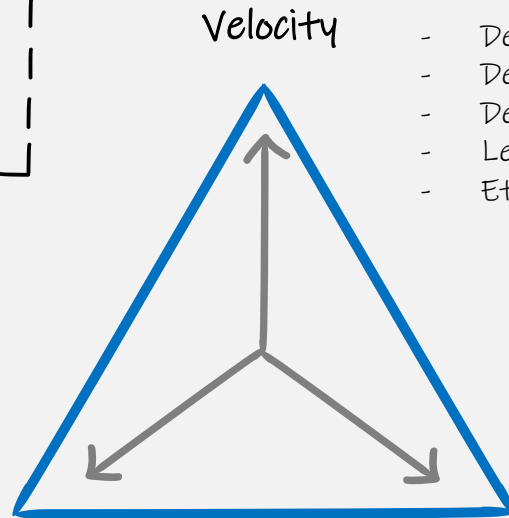
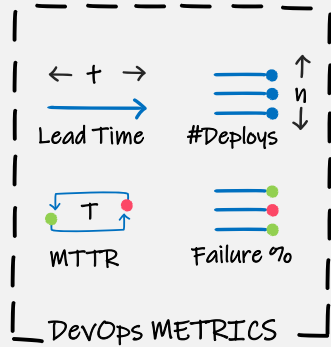
# Continuous learning

DevOps is all about feedback and learning



# DevOps Metrics

Balancing velocity, quality, and performance through continuous improvement



- Deployment frequency;
- Deployment time;
- Deployment size;
- Lead time;
- Etc.

## Quality

- Automated test pass %;
- Defect escape rate;
- Failed deployments;
- Error rates;
- Customer tickets;
- Etc.

## Performance

- Availability;
- Application usage & traffic;
- Application performance;
- Service Level Agreements;
- Mean time to detection (MTTD);
- Mean time to recovery (MTTR);
- Etc.

