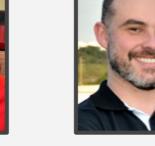


It Will Never Work in Theory: Live!

# Padding and Negotiation of Software Estimates







Patrícia Matsubara UFMS & UFAM Igor Steinmacher UTFPR



UFAM



Tayana Conte UFAM

## Context





A **projection** from the past to the future





Commitment

A **promise** to deliver a feature at a certain level of quality by a specific deadline





A desirable **business outcome** 

We create software **estimates** in a **social** setting: an **organization** with goals and plans. What research has found so far...



Factors affecting expert-judgment software estimates

Impact of early estimates

Price-to-win issues

Goals and targets

Pressure

Padding

Changes to requirements or scope

Reestimation and revision of estimates

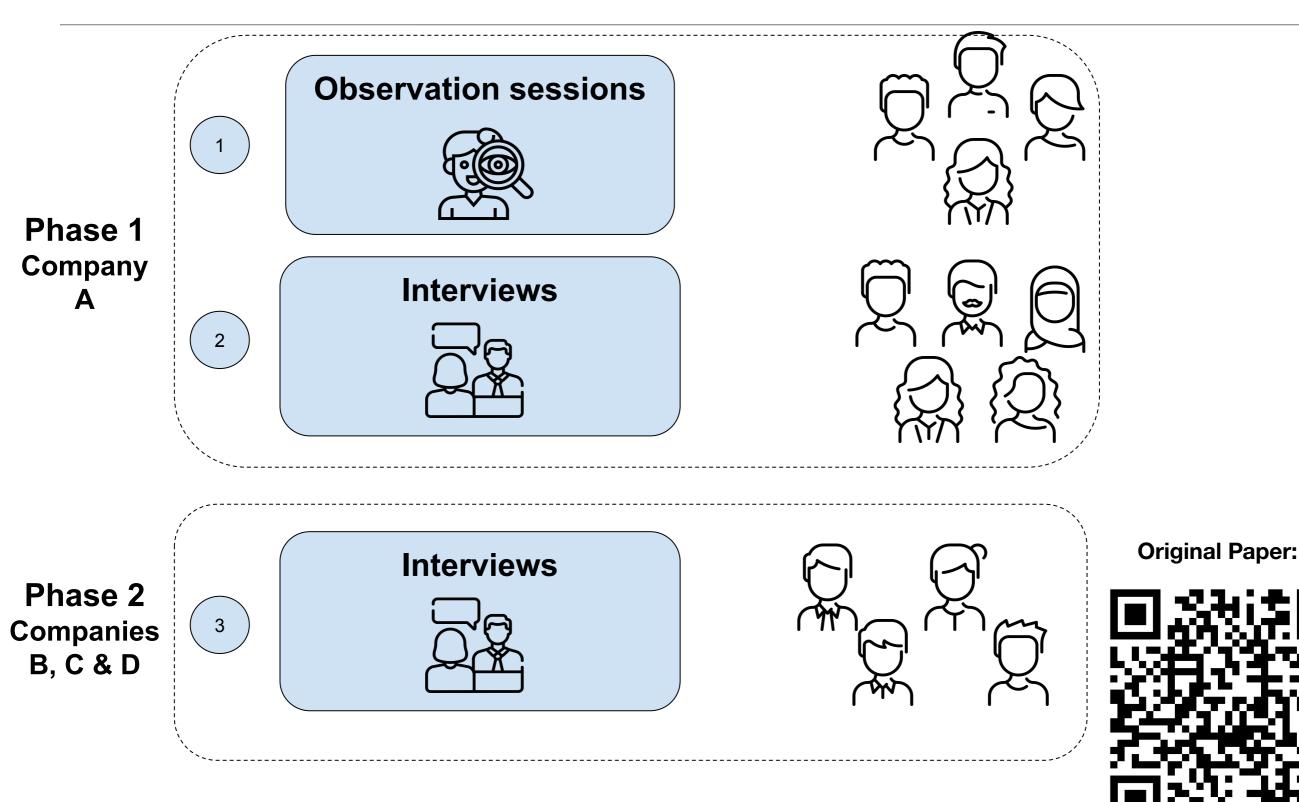
Project flexibility

**Original Paper:** 



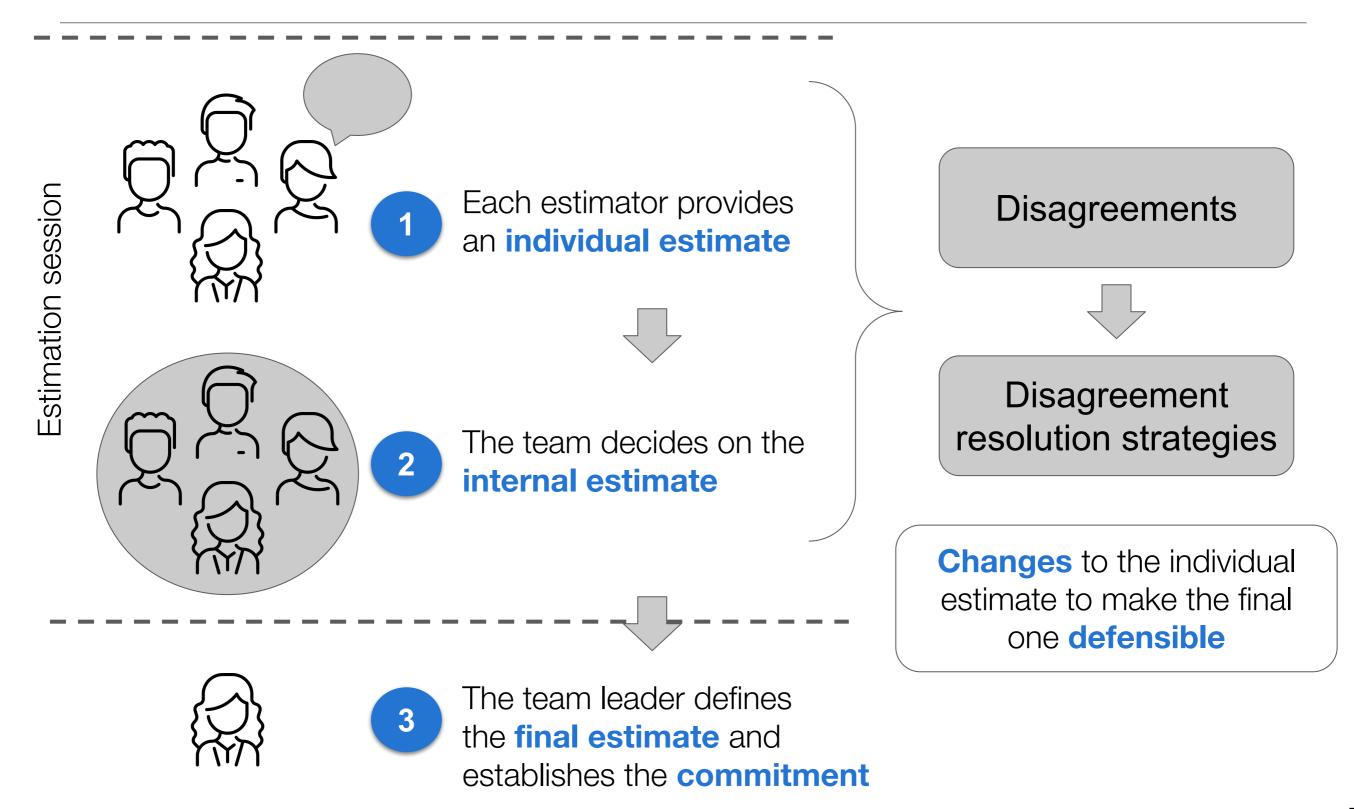


## What we have observed in practice



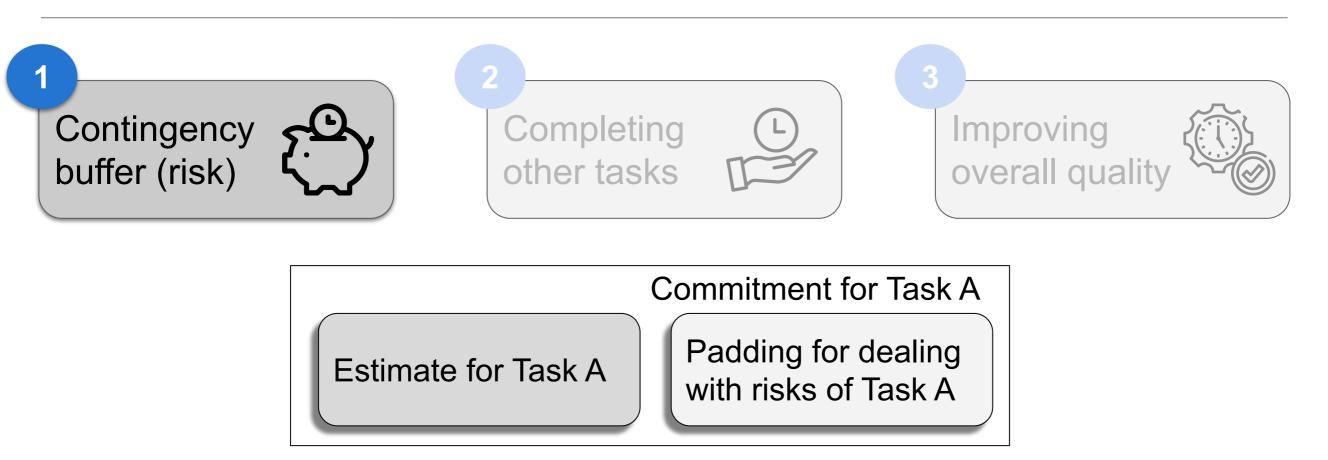


#### Defensible estimates

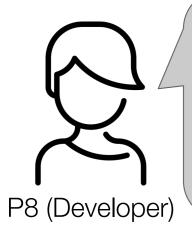




### Reasons to pad



#### Interviews



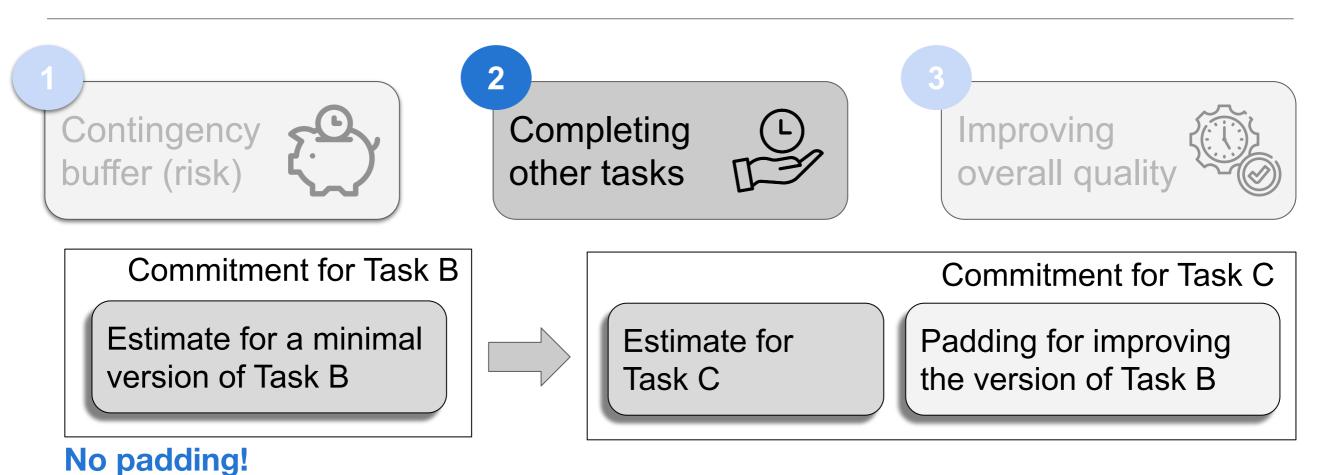
"Usually, it is because we are afraid of the **problems we will have to face**. Like, in larger tasks (...)"



"When we cannot define the feature very well. We need to carry out feasibility studies, but there is no time to do it because it is time to make a proposal".



### Reasons to pad



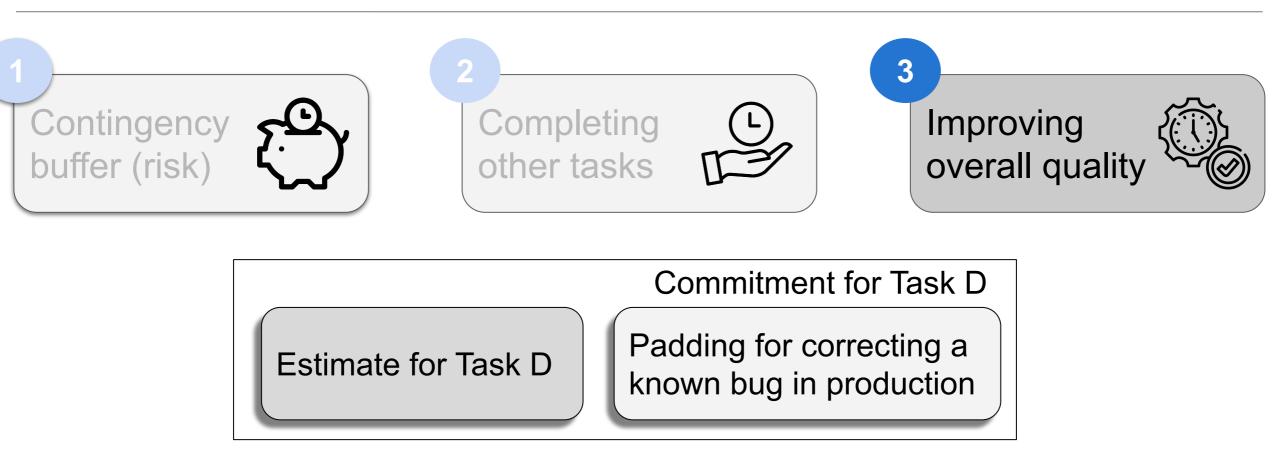
#### Interviews



"We may use padding to gain time for a task that we could not add padding (...) We gave an estimate of 30 working days for functionality Y, but we are counting on the padding of other tasks to finish it."



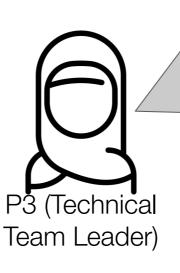
### Reasons to pad



#### Interviews



"It also happens that there **are errors we know**, and we add one day in one task to correct it."



"When we are making the team estimates, we think about the improvements we can make to the system. Moreover, the padding is used for this also, for implementing these improvements."



- Padding can be used as a **social way of hiding things**
- Accuracy is in harm: how we actually perform?
- Everything needs to be sold as **Business Value** 
  - **Developers**: need to expose the reasons  $\mathcal{G}^{\mathcal{P}}$
  - **POs/Leads**: triage the reasons  $\rightarrow$  Describe as customer value  $\checkmark$
  - Management: Educate the clients





Negotiation principle educate: let reality be their teacher



Negotiation principle - focus on interests, not positions



It will never work in theory Thank you!

patriciagfm@icomp.ufam.edu.br **igorfs@utfpr.edu.br** bruno@icomp.ufam.edu.br tayana@icomp.ufam.edu.br

## Padding and Negotiation of Software Estimates



Negotiation principle focus on interests, not positions



Negotiation principle educate: let reality be their teacher



Negotiation principle invent options for mutual gains



@patymatsubara



@igorsteinmacher