Saving 1,000 hours with RStudio

- Selling R at your workplace

20+ Rusers

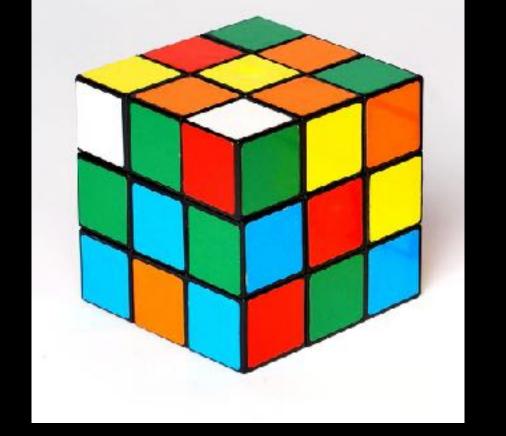
60+ R business users

12,000+ Manual hours

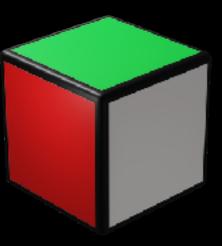
Why does the typical situation not work?



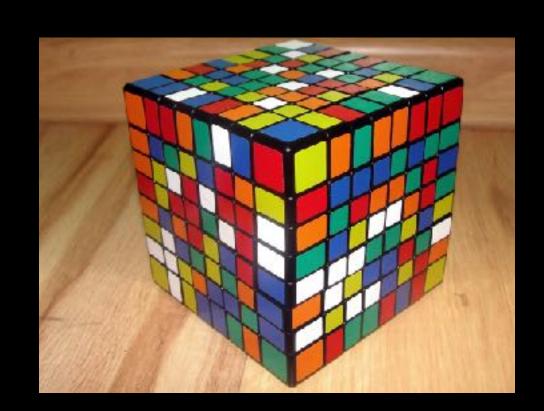
What's covered in the training

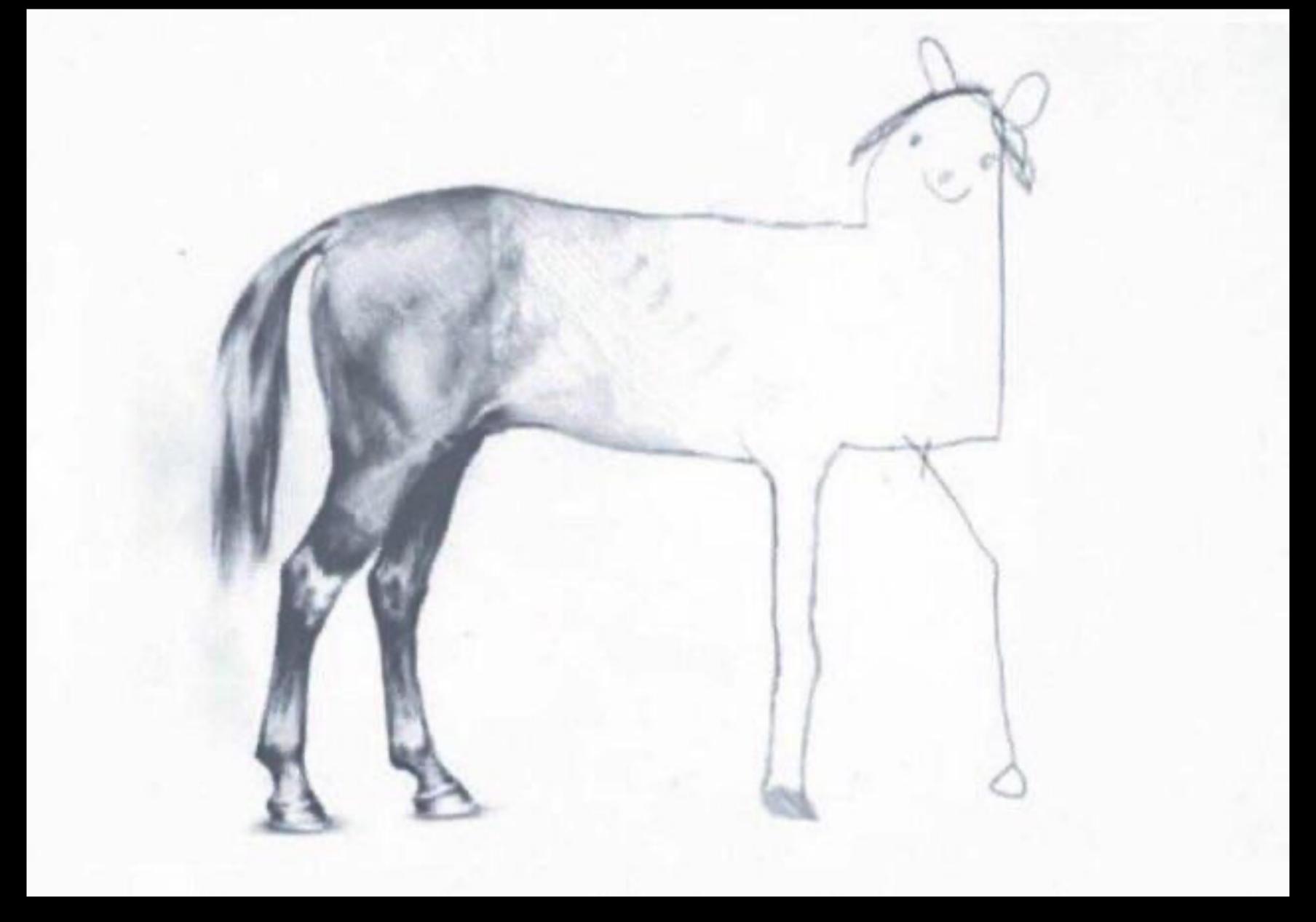


What you learned



What you are asked to solve



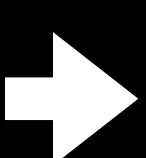


My plan

My project

Why does the typical situation not work?

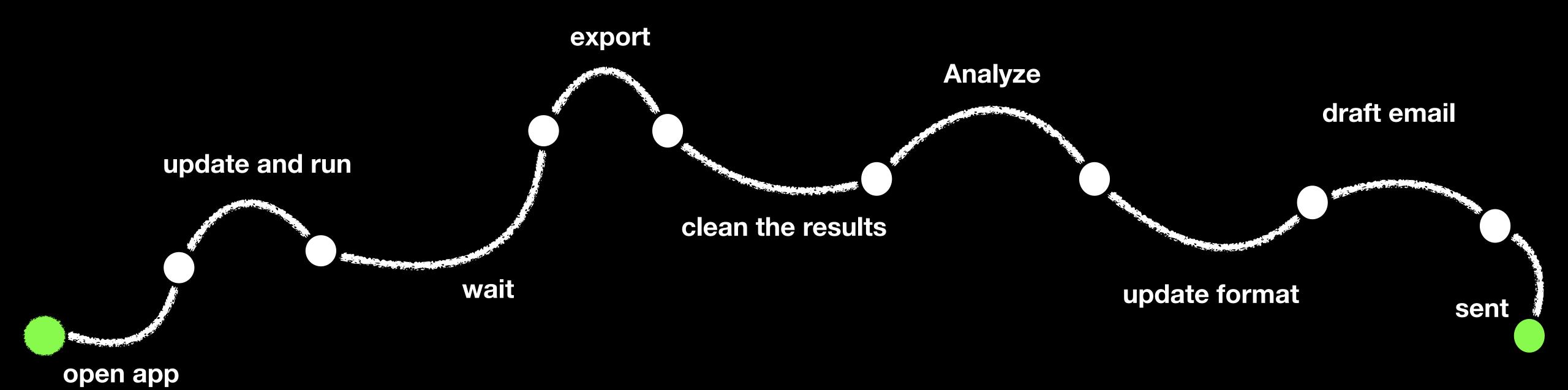
- Beginner's learning curve
- Not finding the right task
- Still have the same deadlines

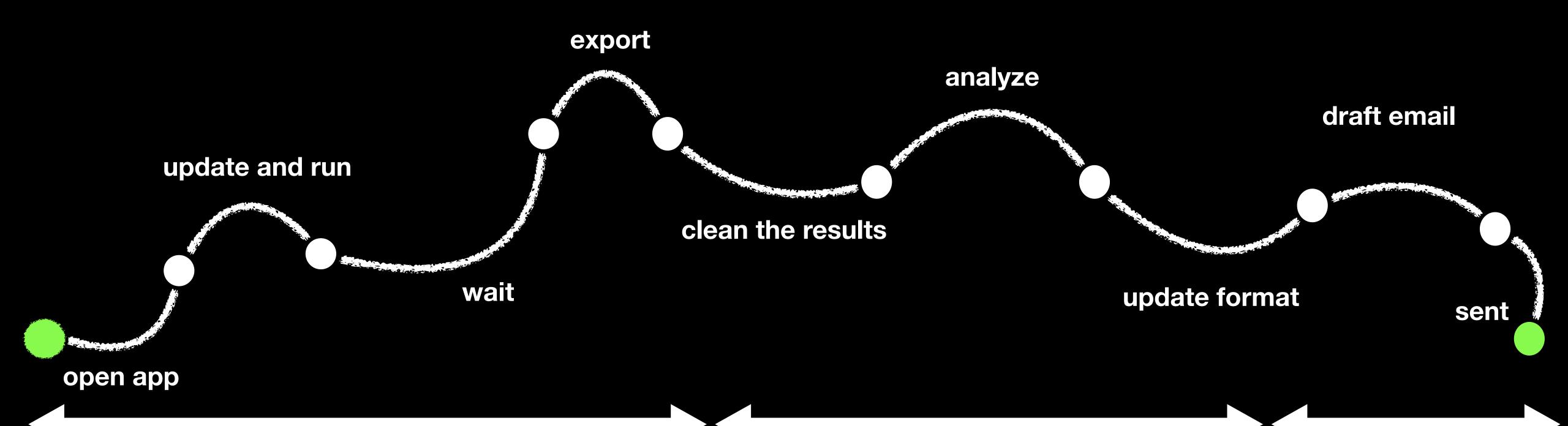


- Start small to build confidence
- Identify the task
- Plan the effort for the transition

1. What is possible?

A typical report workflow





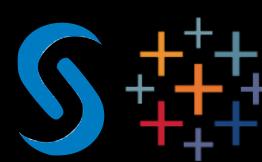


















Getting the Data



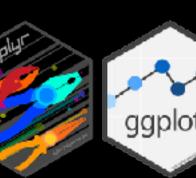














Communication





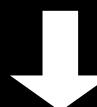


1. What is possible?

Attended automation

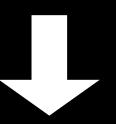




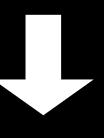




Unattended automation

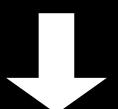




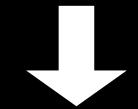




Hybrid









2. Sell it to decision makers

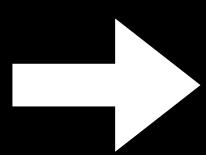
What are the benefits of doing this with R?

Level of Interests **Benefits** Reproducibility Less human error Cost benefit (hours saved)

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2. Sell it to decision makers

- Reproducibility
- Less human error
- Cost benefit (hours saved)



- Cost benefit (hours saved)
- Less human error
- Reproducibility

3. What do we need

3. What do we need - Understand current process



Business Reasons



Occurrence



Tools & Steps



Communication

3. What do we need - Understand current efforts







Overall time

Manual VS Processing

Tough items

3. What do we need - Understand exceptions



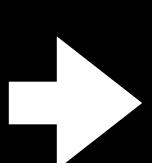


Process update

Get help

3. What do we need

- Understand current process
- Understand current efforts
- Understand exceptions



- Complexity
- Impact
- Stability

3. What do we need

Tasks	Complexity	Impact	Stability	Priority
1	High	Low	Low	
2	Medium	Medium	Medium	
3	Medium	High	High	

4. Get your hands dirty

4. Get your hands dirty





5. Keep it going

Situation 1: script is not handled properly



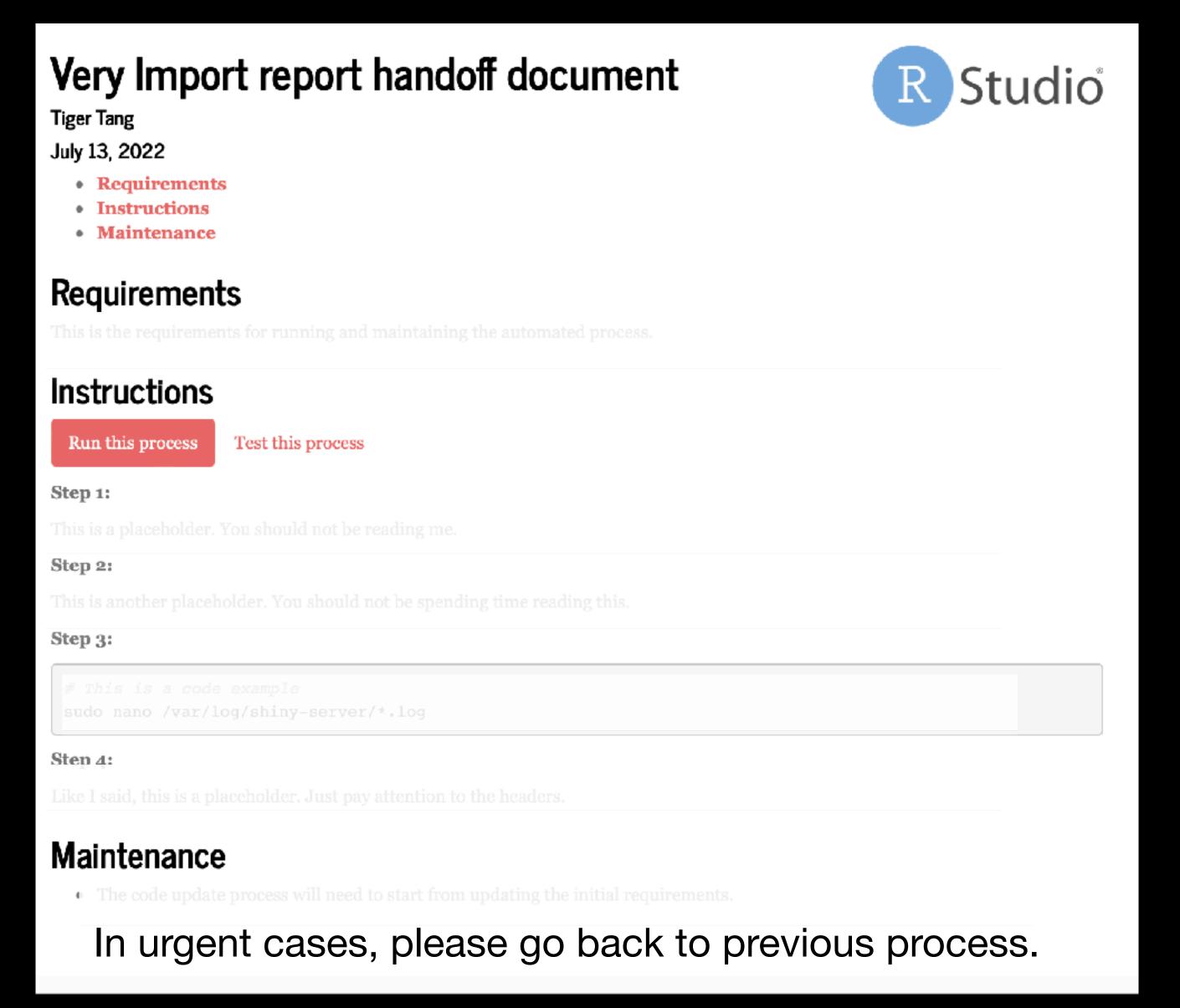
Situation 1: script is not handled properly

Very Import report handoff document Studio Tiger Tang July 13, 2022 Requirements Instructions Maintenance Requirements Instructions Test this process Run this process Step 1: Step 2: Step 3: Sten 4: Maintenance

Situation 2: Multiple processes stopped working



Situation 2: Multiple processes stopped working



Situation 3: new features needed



20% of the time, you get a new feature request every time (excuse my Anchorman reference)

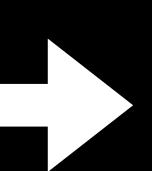
Situation 3: new request comes in

Tasks	Complexity	Impact	Stability	Priority
	Xxx	Xxx	Xxx	



5. Keep it going

- Situation 1: script is not handled properly
- Situation 2: Multiple processes stopped working
- Situation 3: new features needed



- Share instructions of running/ maintaining the job
- The job can always be run in the previous method
- Treat it like a new request and train the team members to handle them.

6. Share the progress

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Hours saved

Process Documents

Training

6. Share the progress







Hurdles

6. Share the progress

What to share:

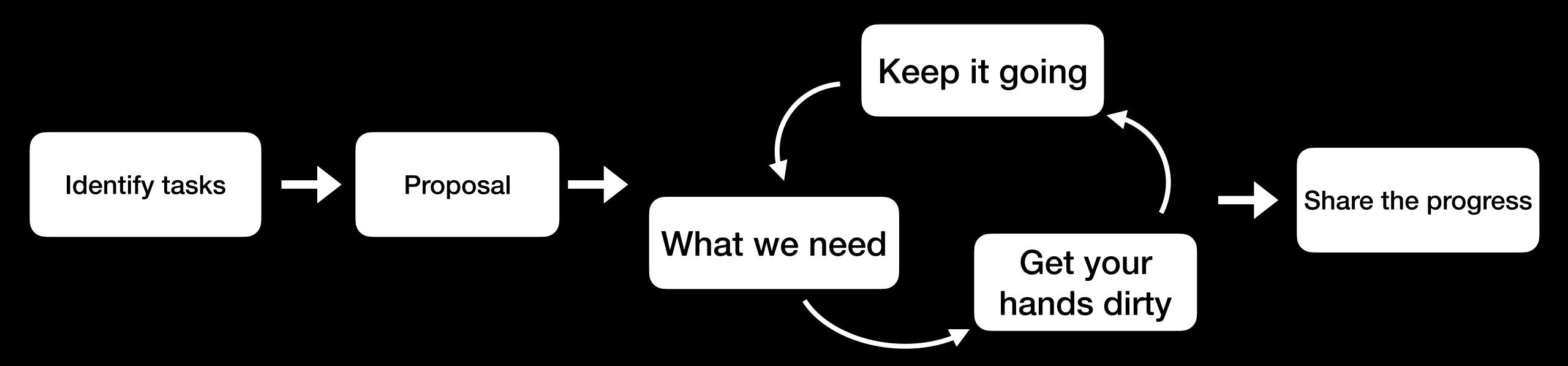
- Key stats
- Success stories and learning
- Roadblock and hurdles

When to share:

- Once a month
- Whenever you have critical updates

Build your automation project Structure for you

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Tiger Tang, July 27th, 2022