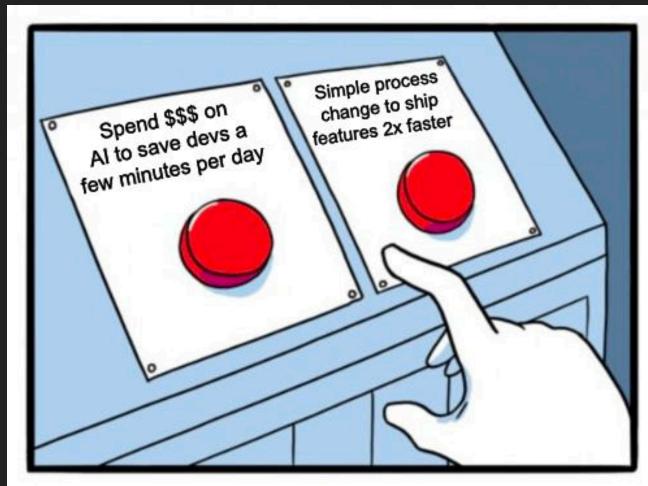


#### 'S ROAD TO FASTER MOBILE PRODUCT ITERATIONS

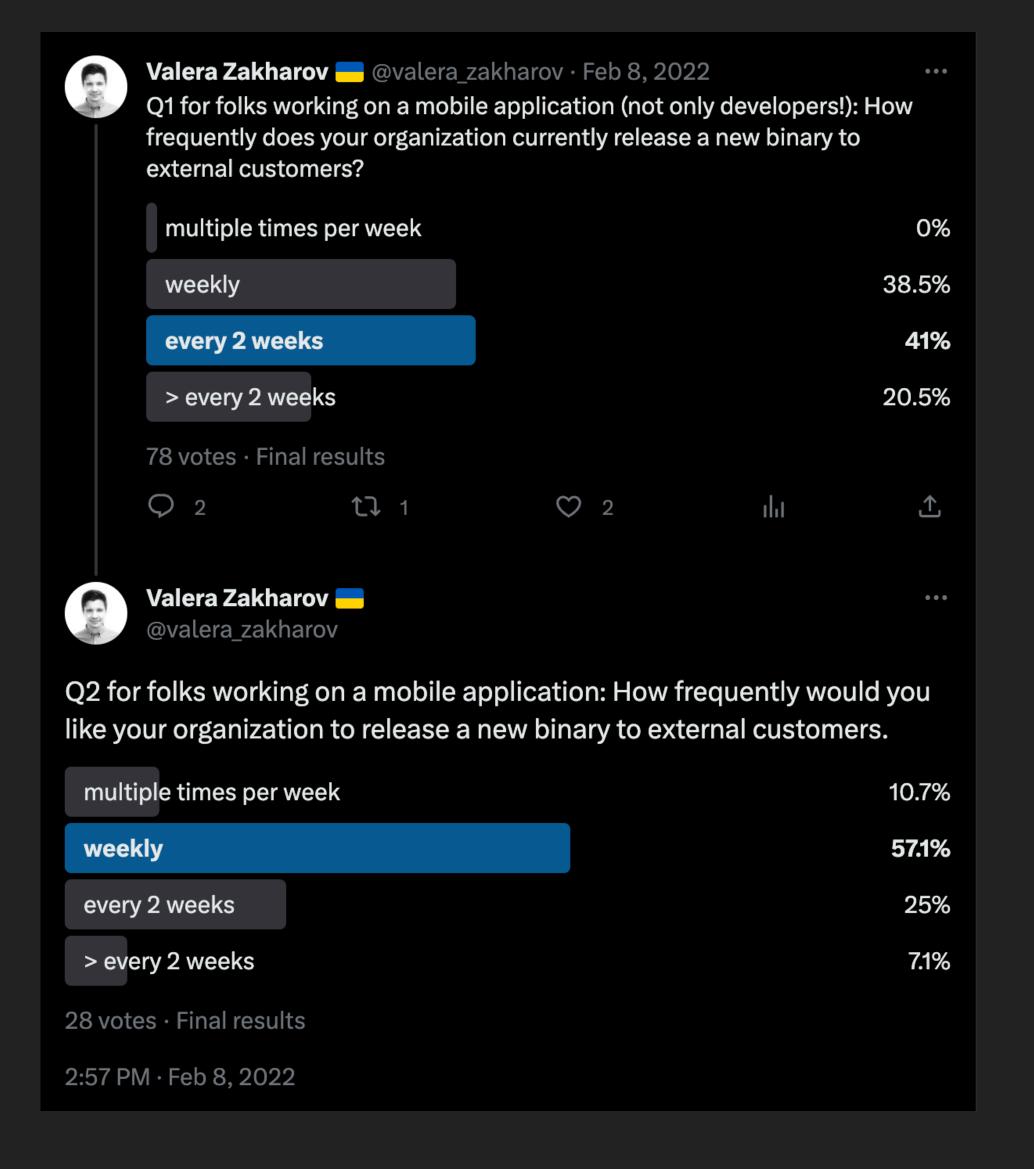
#### FASTER. HARDER. STRONGER FREQUENTER.

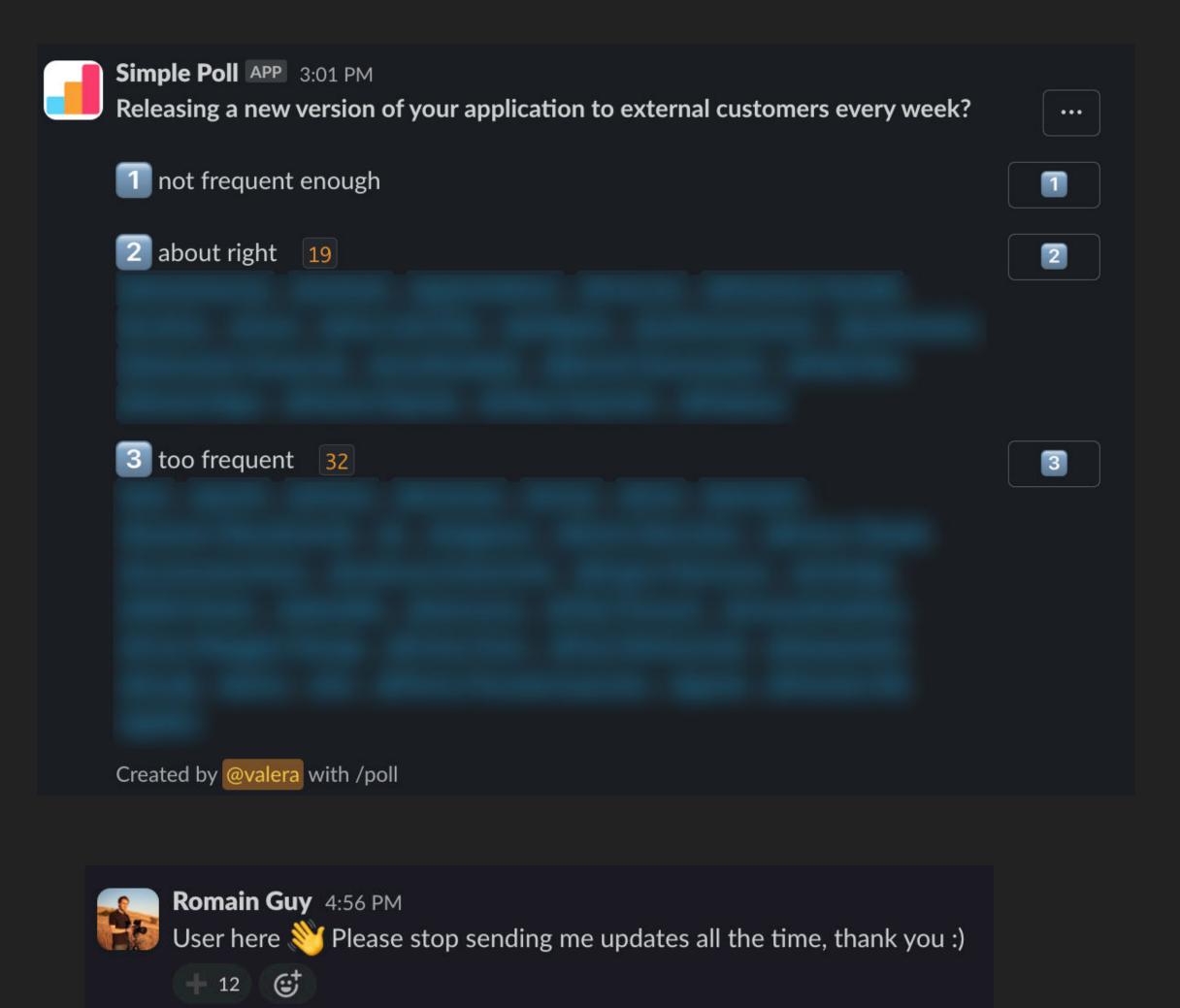




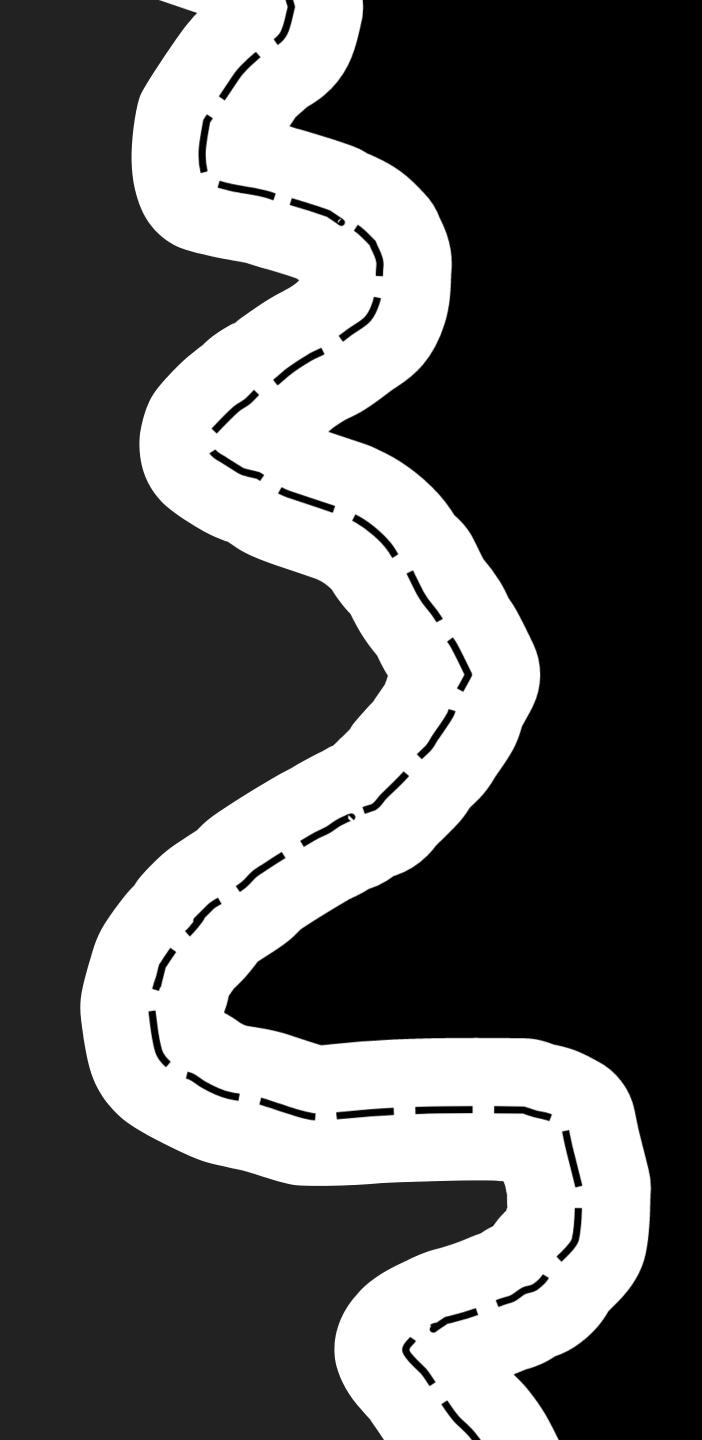


# WE ARE HERE TO HELP WITH SHIPPING FEATURES TO USERS



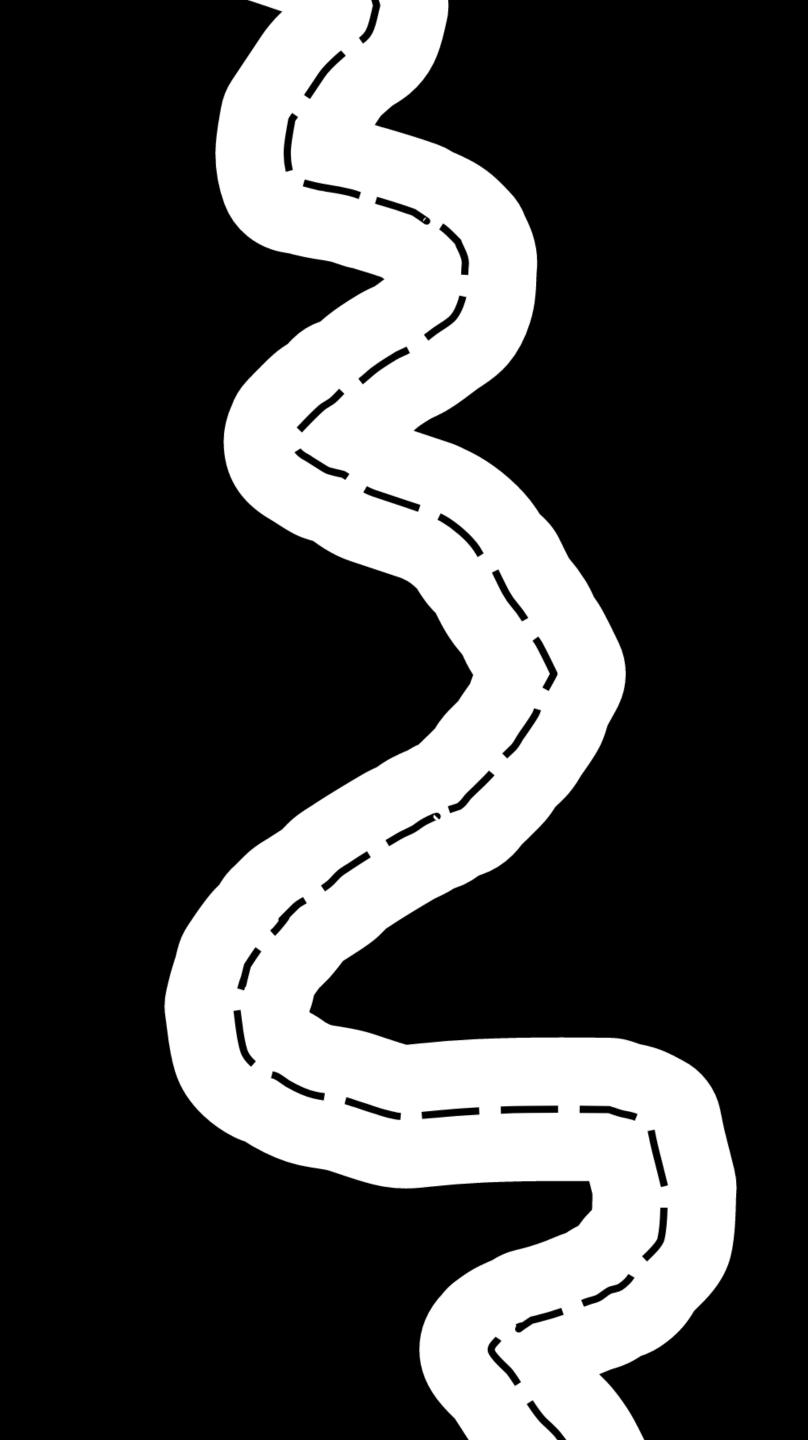


Imagine you were driving a car down a windy road. If you could only touch the steering wheel once every ten minutes, how fast would you drive?





A team's speed is a function of the frequency and quality of its feedback loops







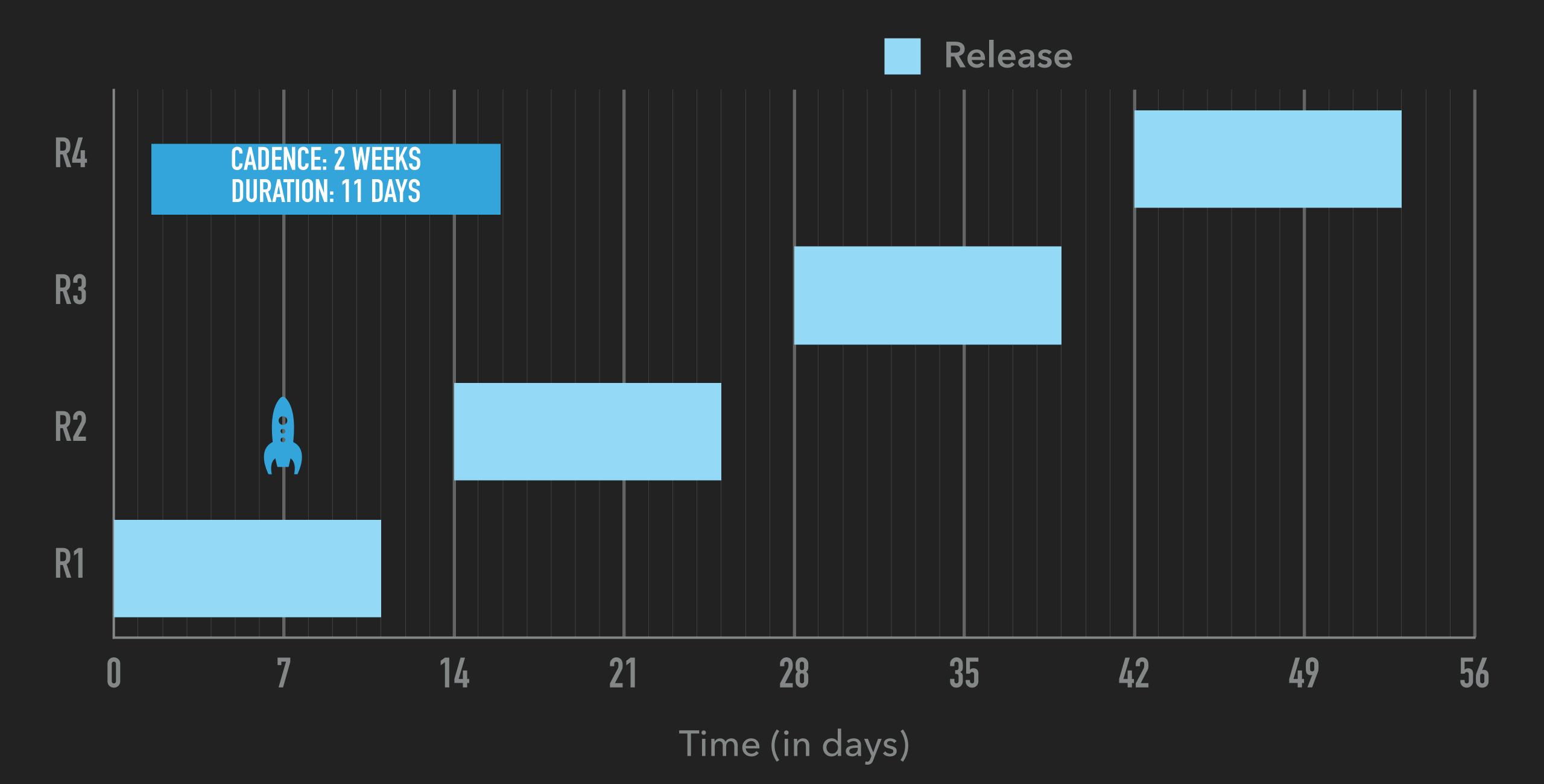
#### MIN ITERATION CYCLE ON WEB

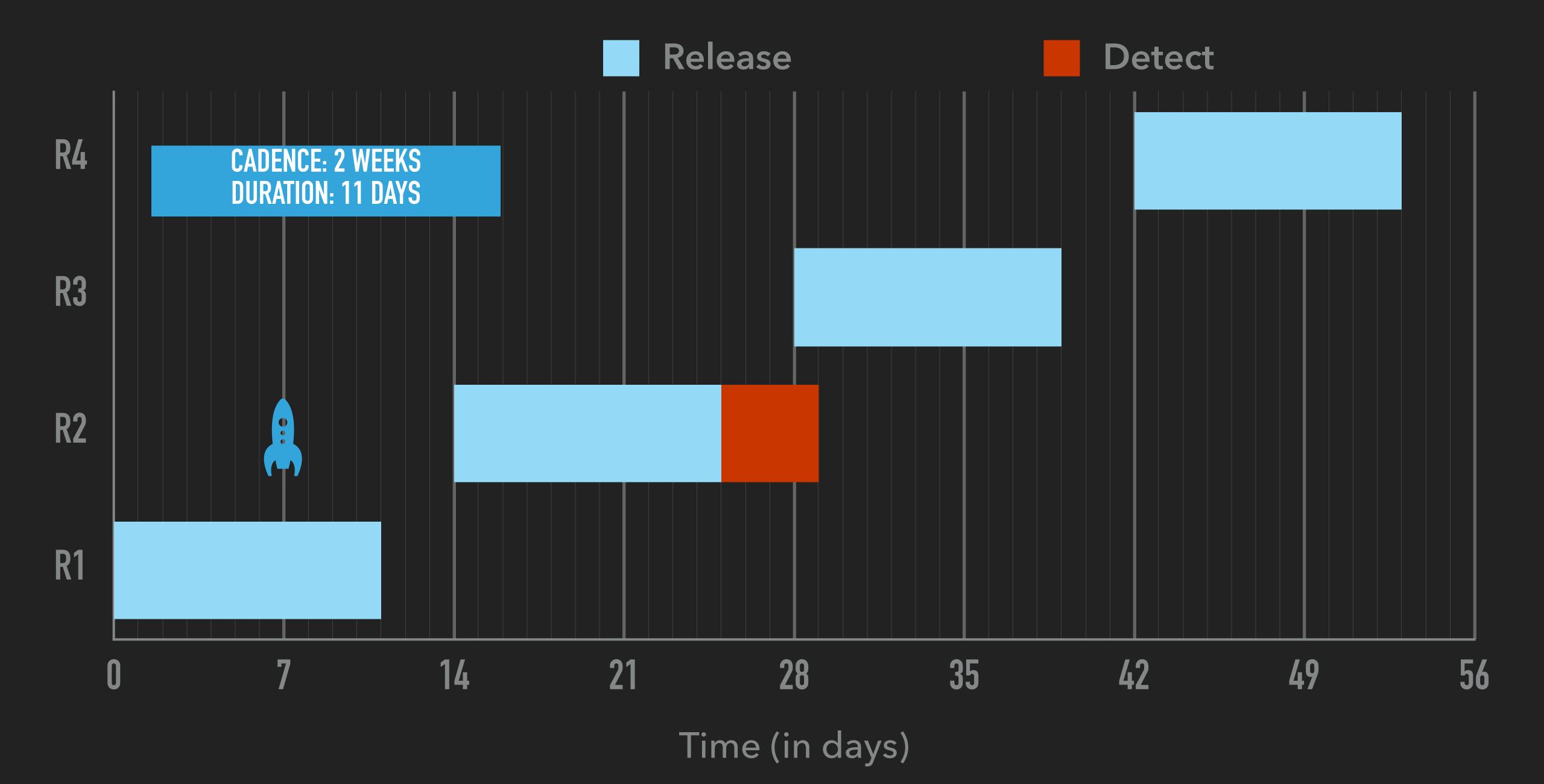


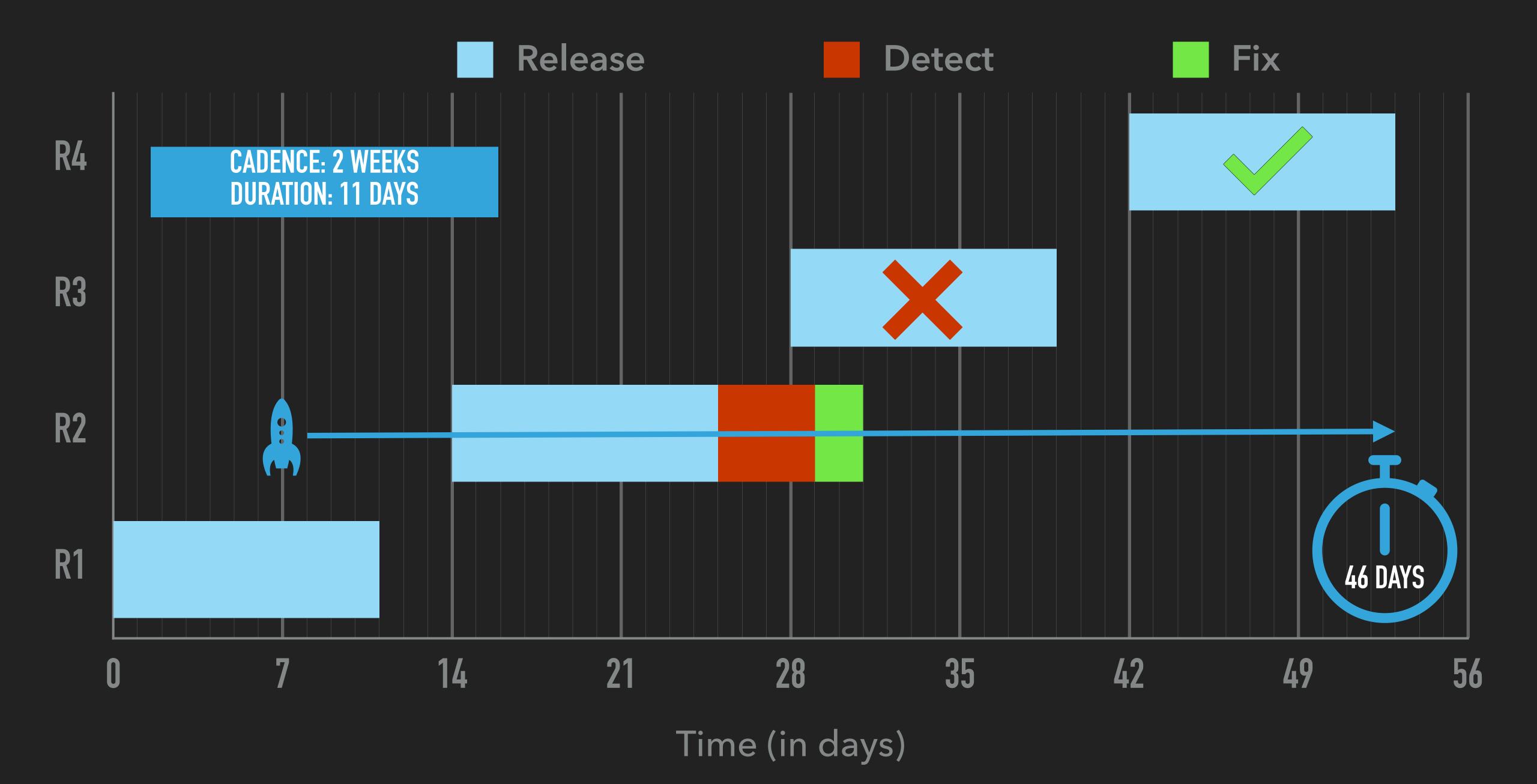


MINITERATION ON MOBILE\*

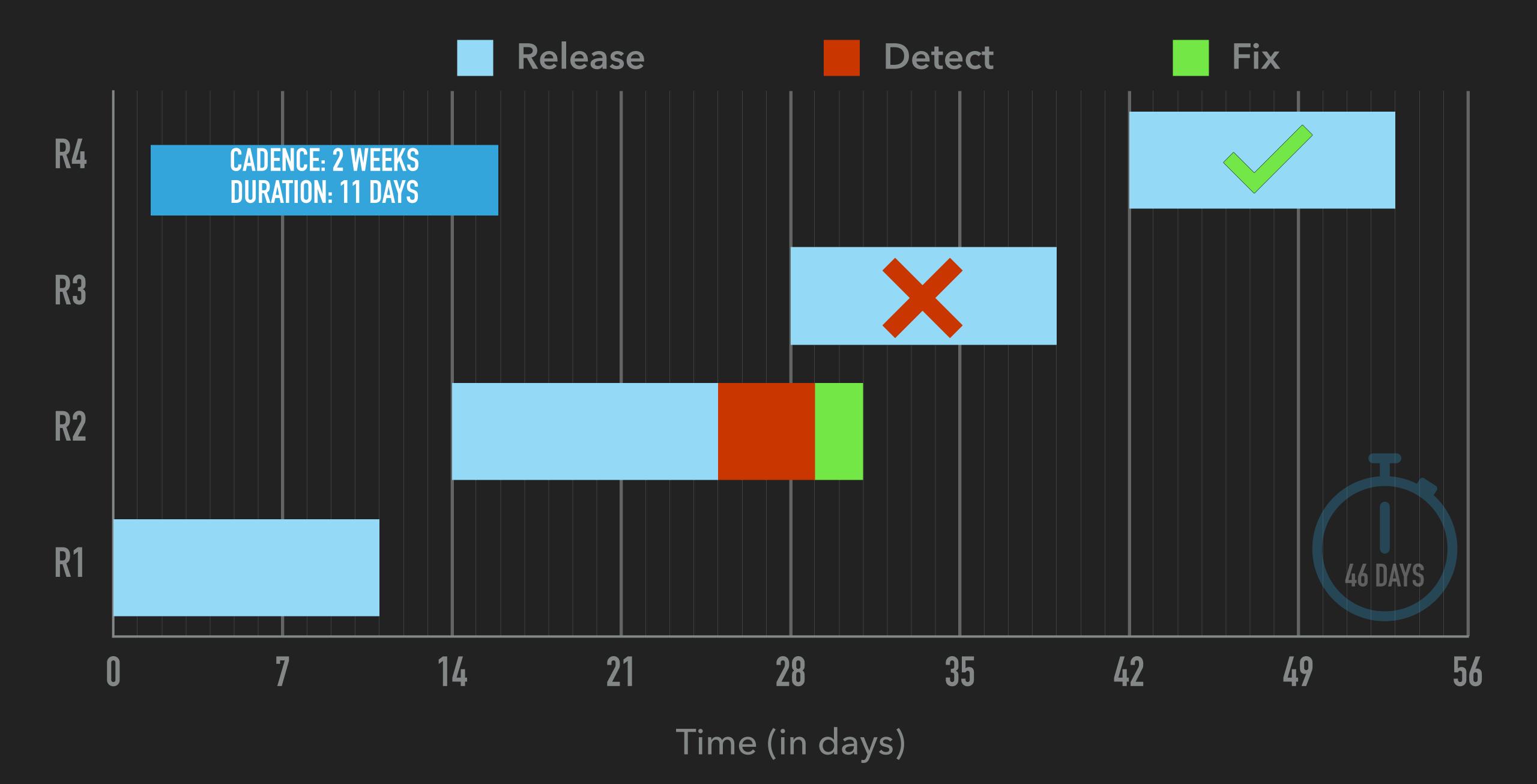
### 40+DAYS

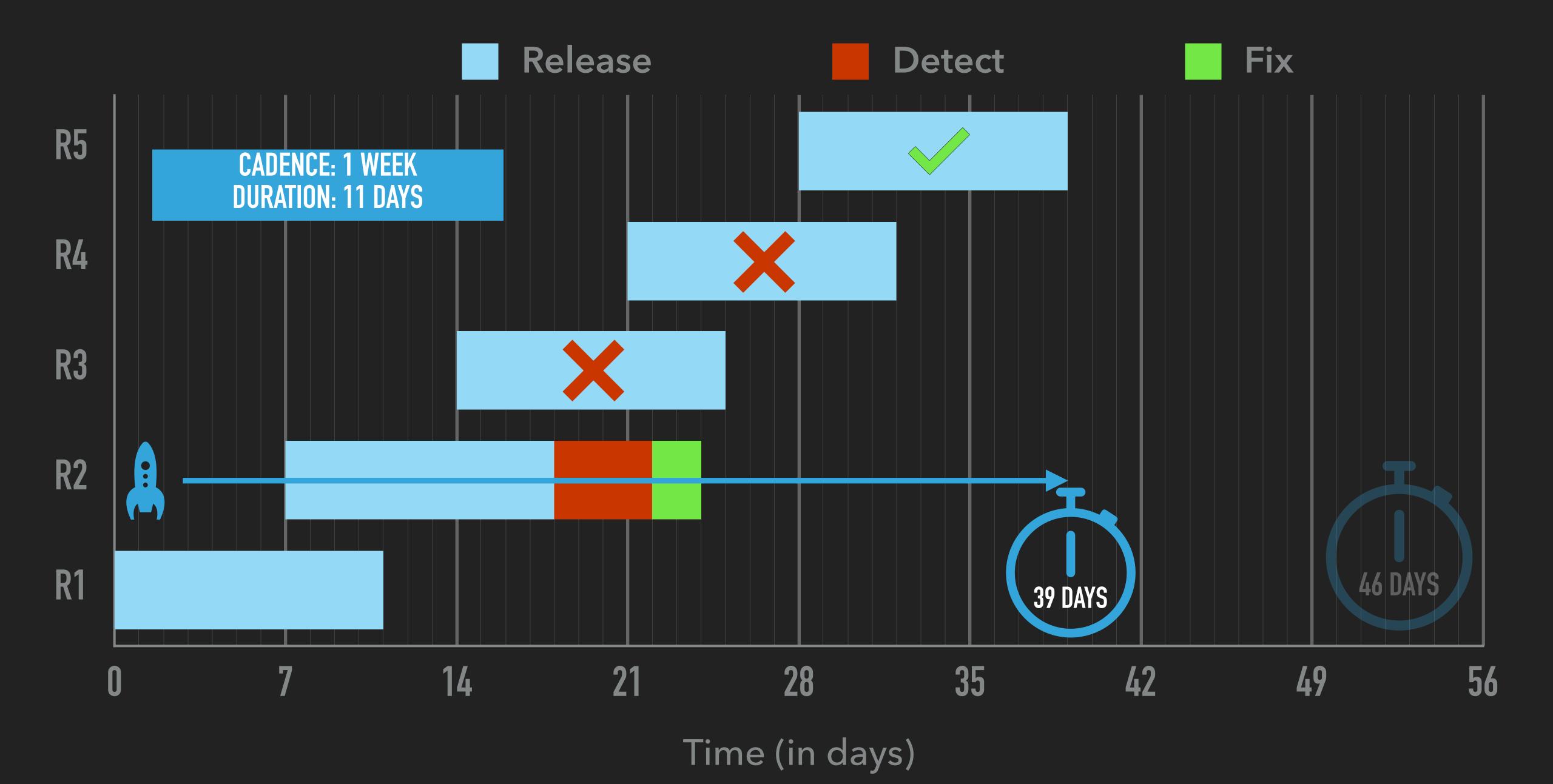


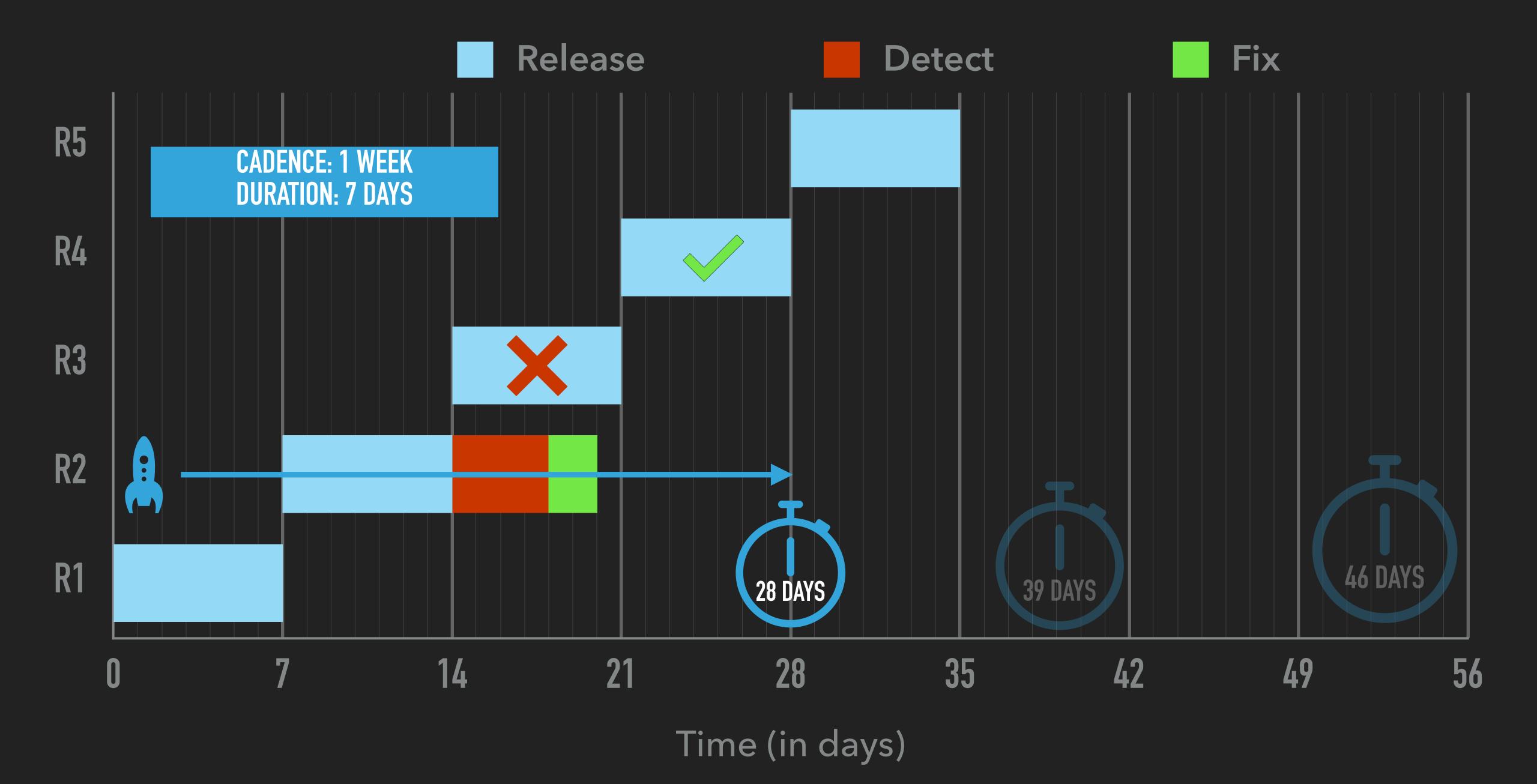






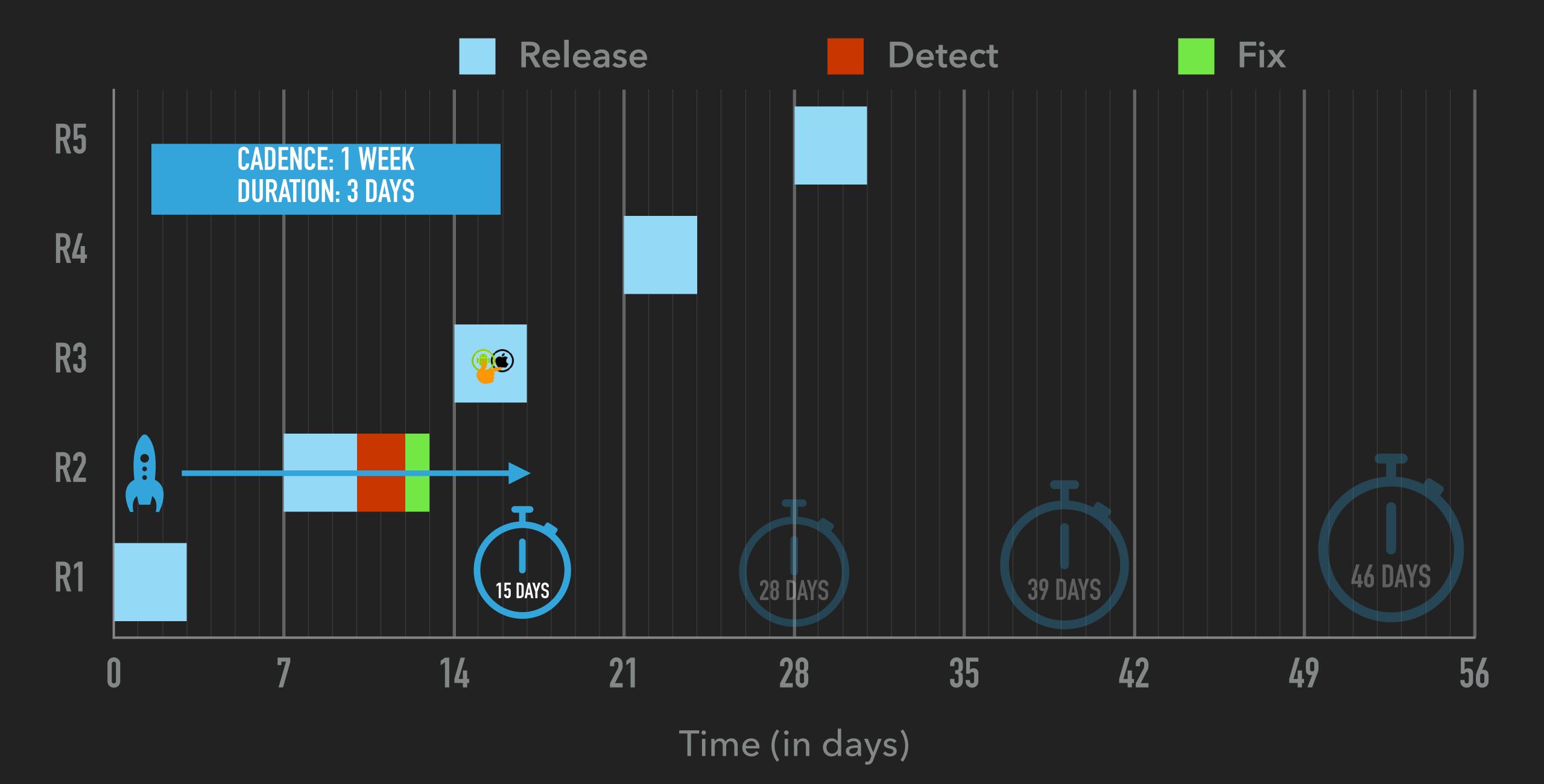






## RELEASE MORE FREQUENTLY OR FASTER?



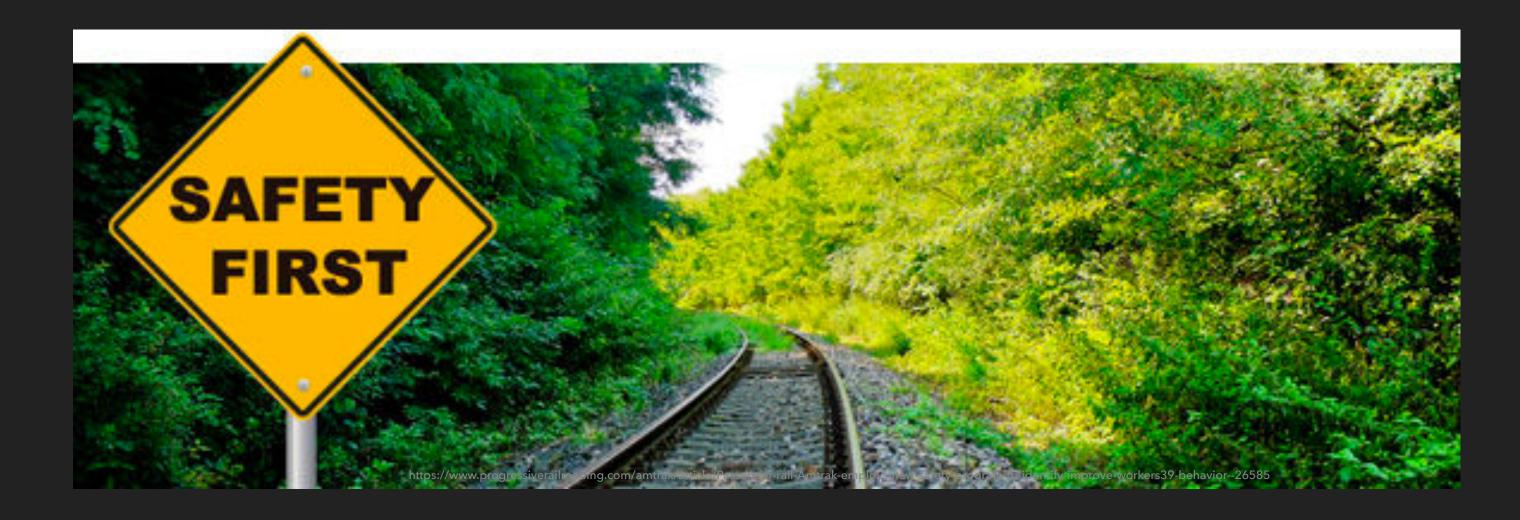


Software delivery performance metric	Elite	High	Medium	Low
Deployment frequency  For the primary application or service you work on, how often does your organization deploy code to production or release it to end users?	On-demand (multiple deploys per day)	Between once per week and once per month	Between once per month and once every 6 months	Fewer than once per six months
Lead time for changes  For the primary application or service you work on, what is your lead time for changes (i.e., how long does it take to go from code committed to code successfully running improduction)?	Less than one hour	Between one day and one week	Between one month and six months	More than six months
Time to restore service  For the primary application or service you work on, how long does it generally take to restore service when a service incident or a defect that impacts users occurs (e.g., unplanned outage or service impairment)?	Less than one hour	Less than one day	Between one day and one week	More than six months
Change failure rate  For the primary application or service you work on, what percentage of changes to production or released to users result in degraded service (e.g., lead to service impairment or service outage) and subsequently require remediation (e.g., require a hotfix, rollback, fix forward, patch)?  https://cloud.google.com/blog/products/devops-sre/using-the-four-keys-to-measure-your-devops-performance	0%-15%	16%-30%	16%-30%	16%-30%

Software delivery performance metric	Elite	High	Medium	Low
Deployment frequency  For the primary application or service you work on, how often does your organization deploy code to production or release it to end users?	On-demand (multiple deploys per day)	Between once per week and once per month	Between once per month and once every 6 months	Fewer than once per six months
Lead time for changes  For the primary application or service you work on, what is your lead time for changes (i.e., how long does it take to go from code committed to code successfully running improduction)?	Less than one hour	Between one day and one week	Between one month and six months	More than six months
Time to restore service  For the primary application or service you work on, how long does it generally take to restore service when a service incident or a defect that impacts users occurs e.g., unplanned outage or service impairment)?	Less than one hour	Less than one day	Between one day and one week	More than six months
Change failure rate  For the primary application or service you work on, what percentage of changes to production or released to users result in degraded service (e.g., lead to service impairment or service outage) and subsequently require remediation (e.g., require a hotfix, rollback, fix forward, patch)?  https://cloud.google.com/blog/products/devops-sre/using-the-four-keys-to-measure-your-devops-performance	0%-15%	16%-30%	16%-30%	16%-30%

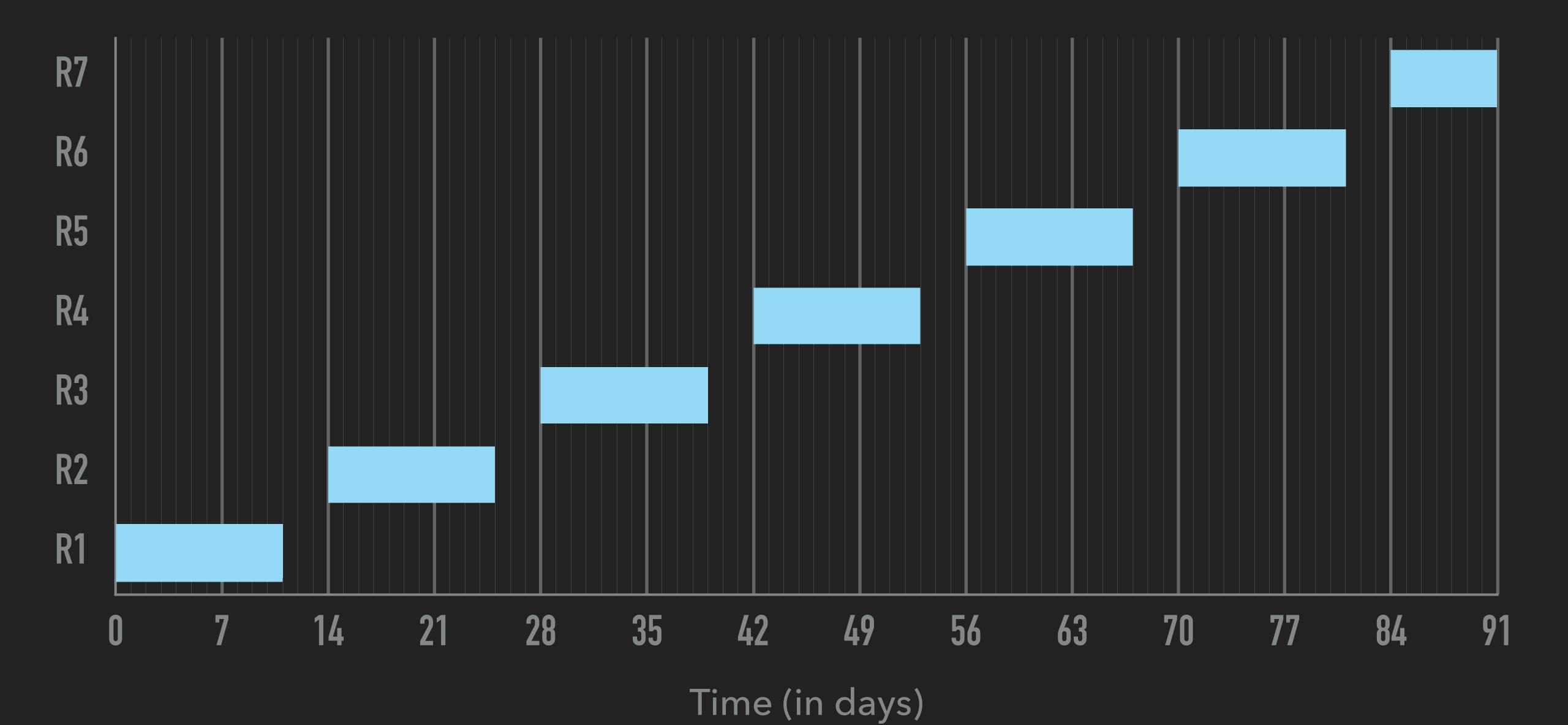
#### MOBILE IS DIFFERENT

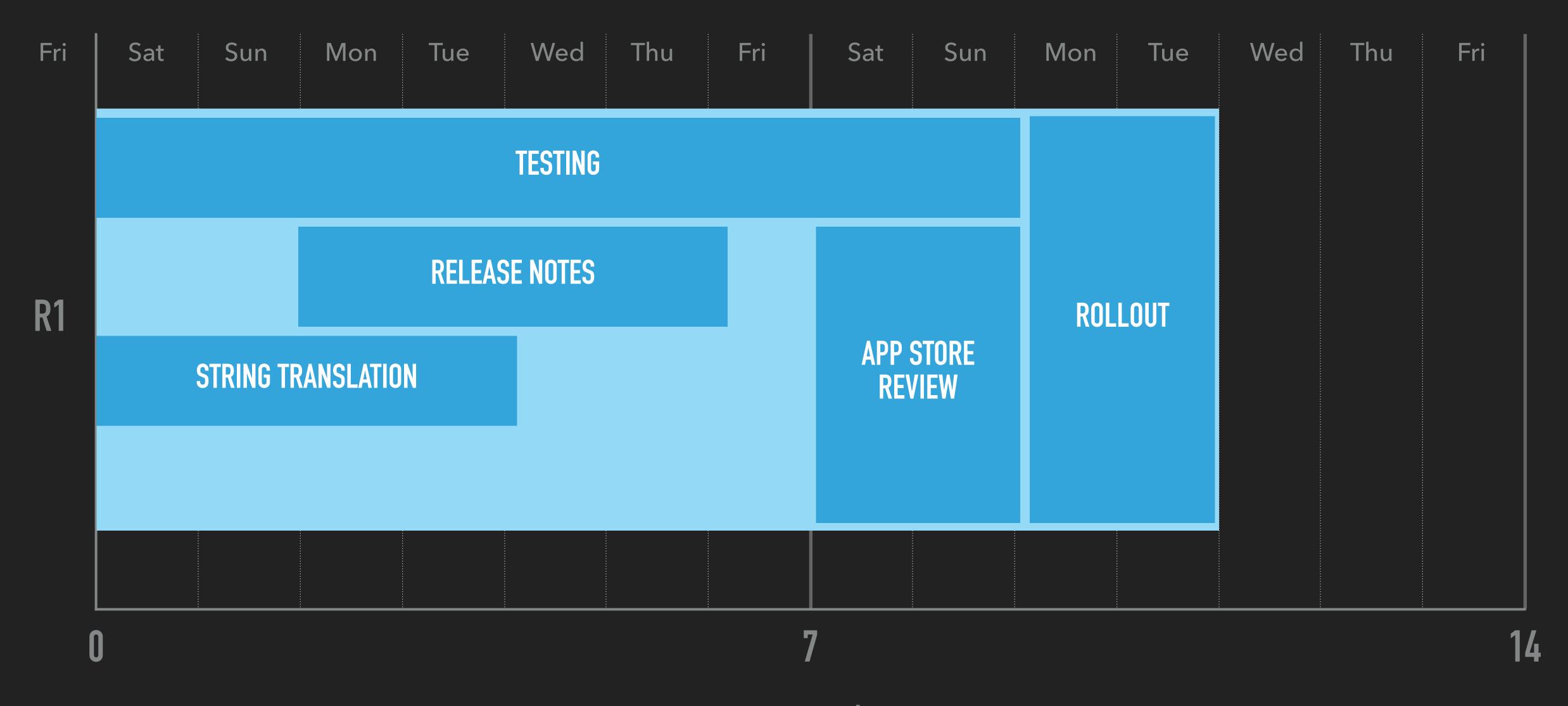




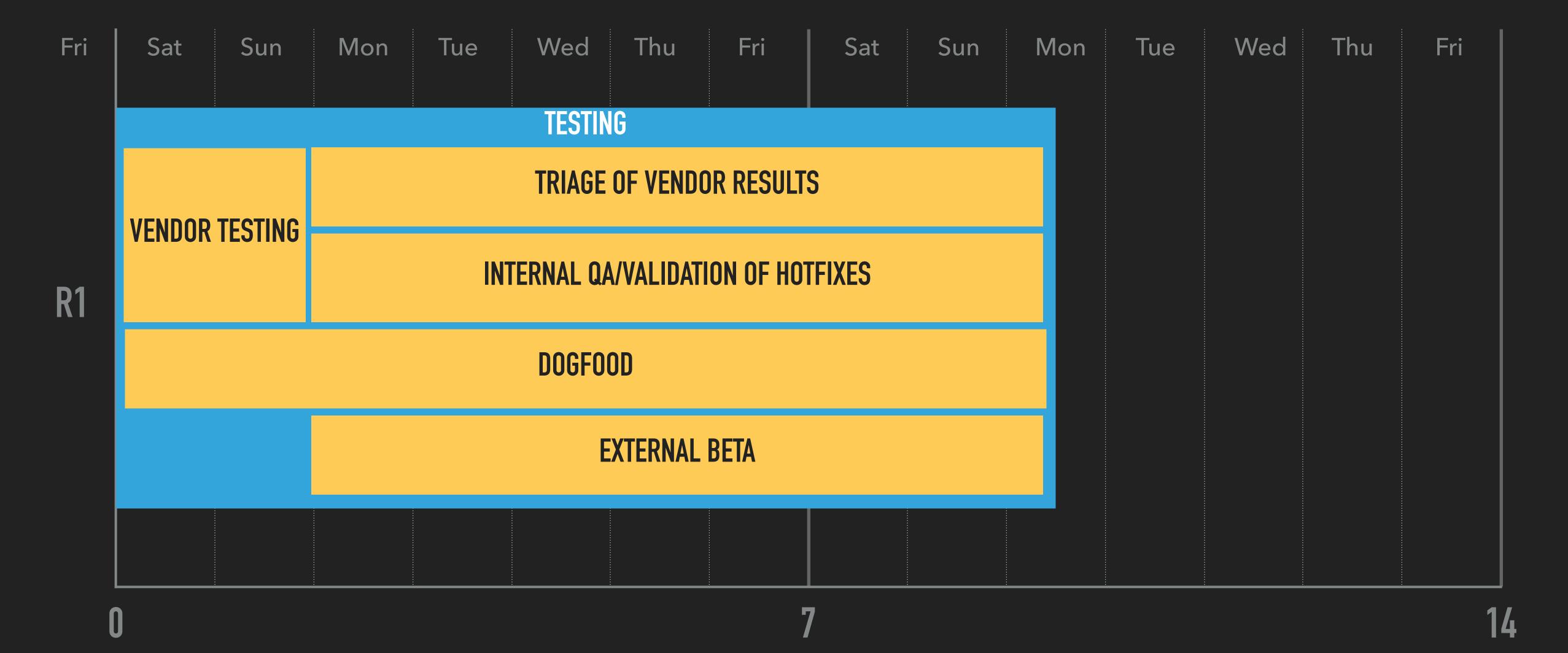
- App Store review takes days. Sometimes multiple rounds.
- No fast rollbacks
- Users not guaranteed to install your update right away or ever
- Cost of a mistake is high

### DIVING DEEPER

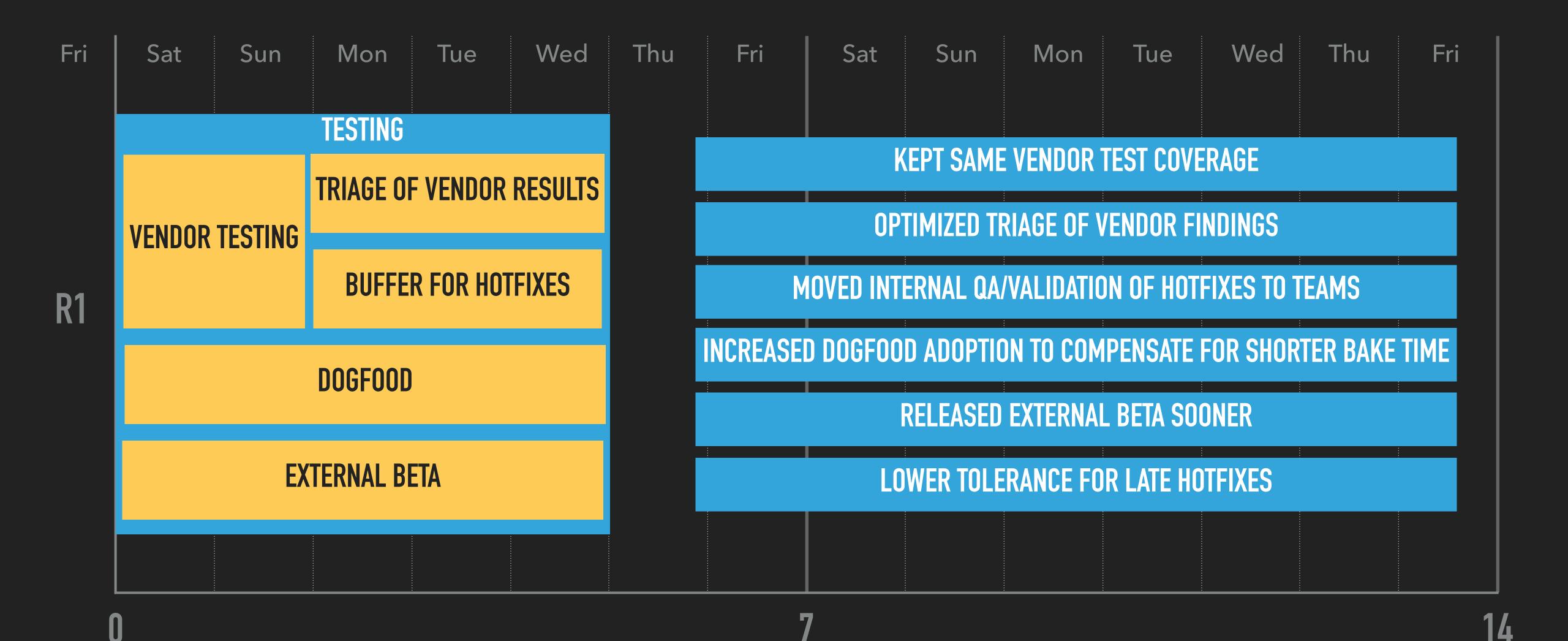




Time (in days)



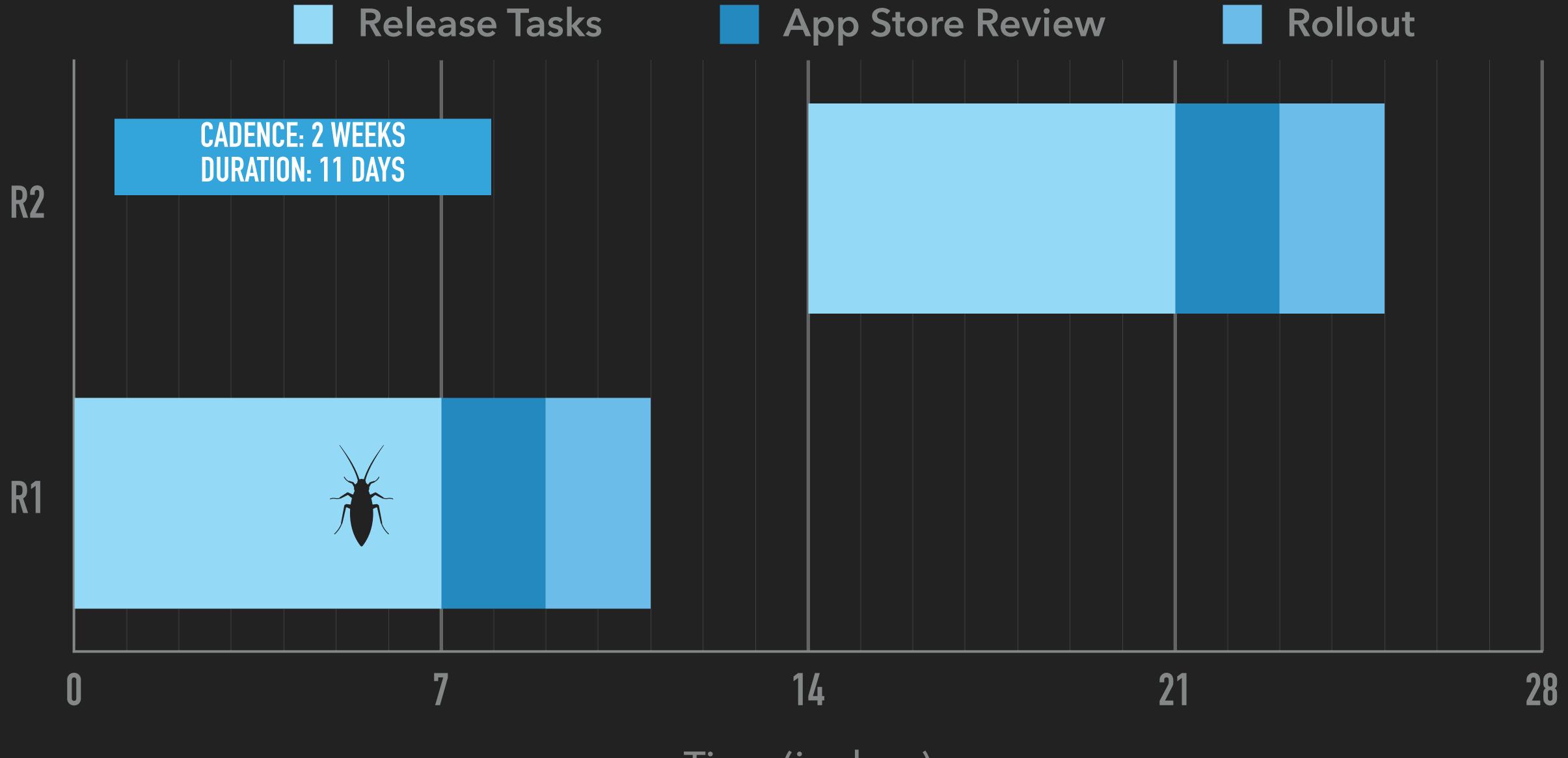
Time (in days)



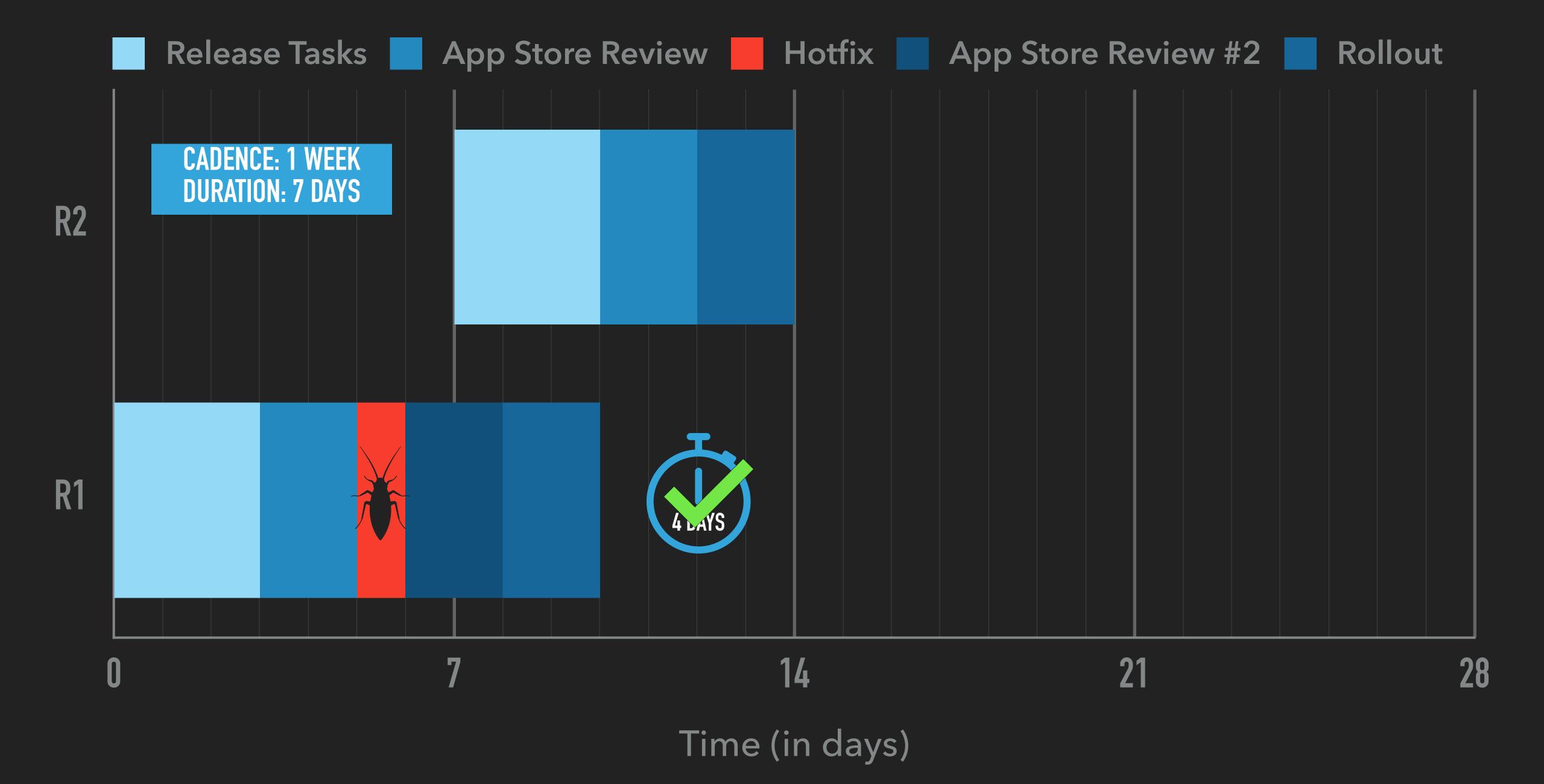
Time (in days)

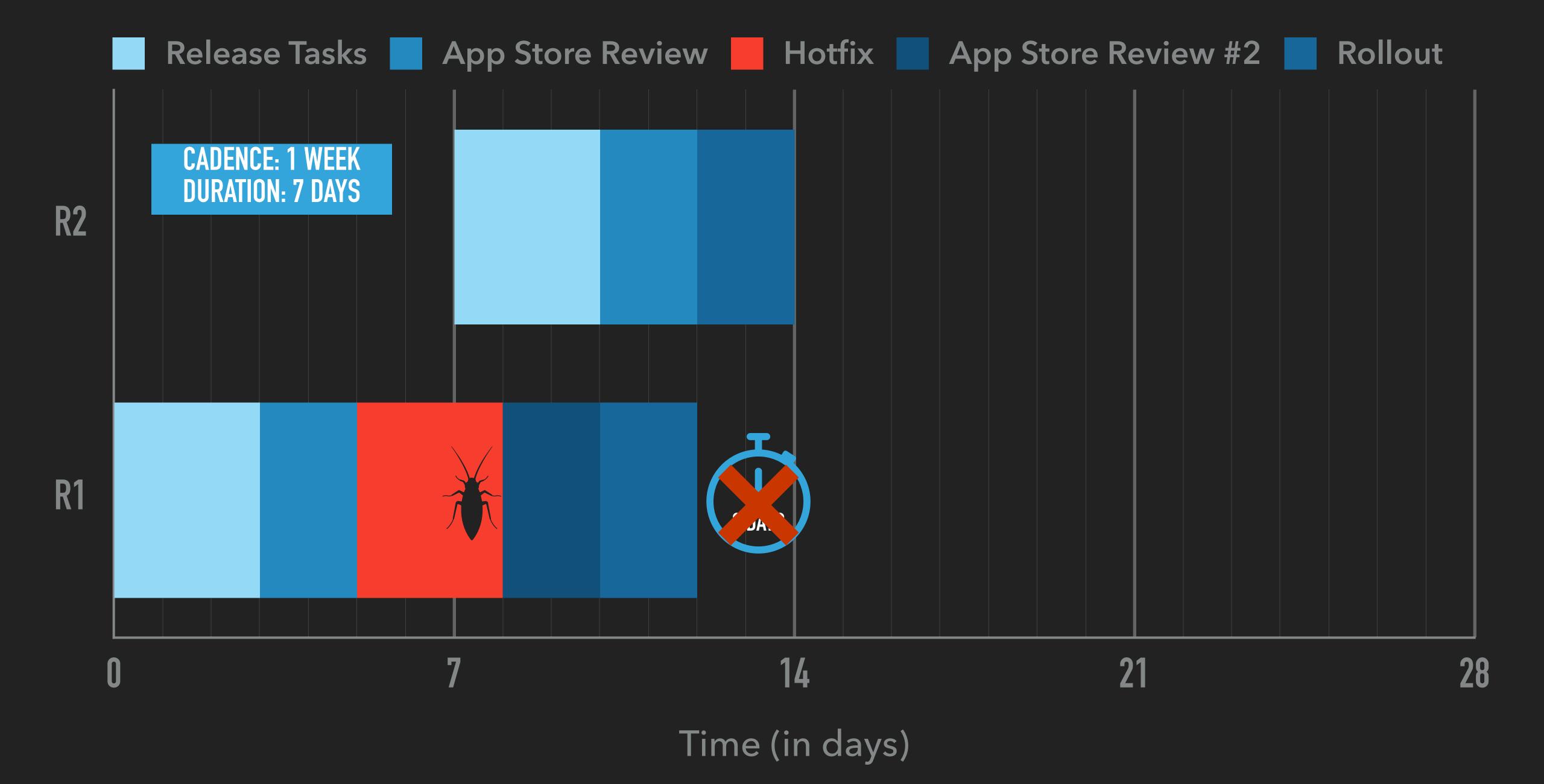
### HOTFIXES

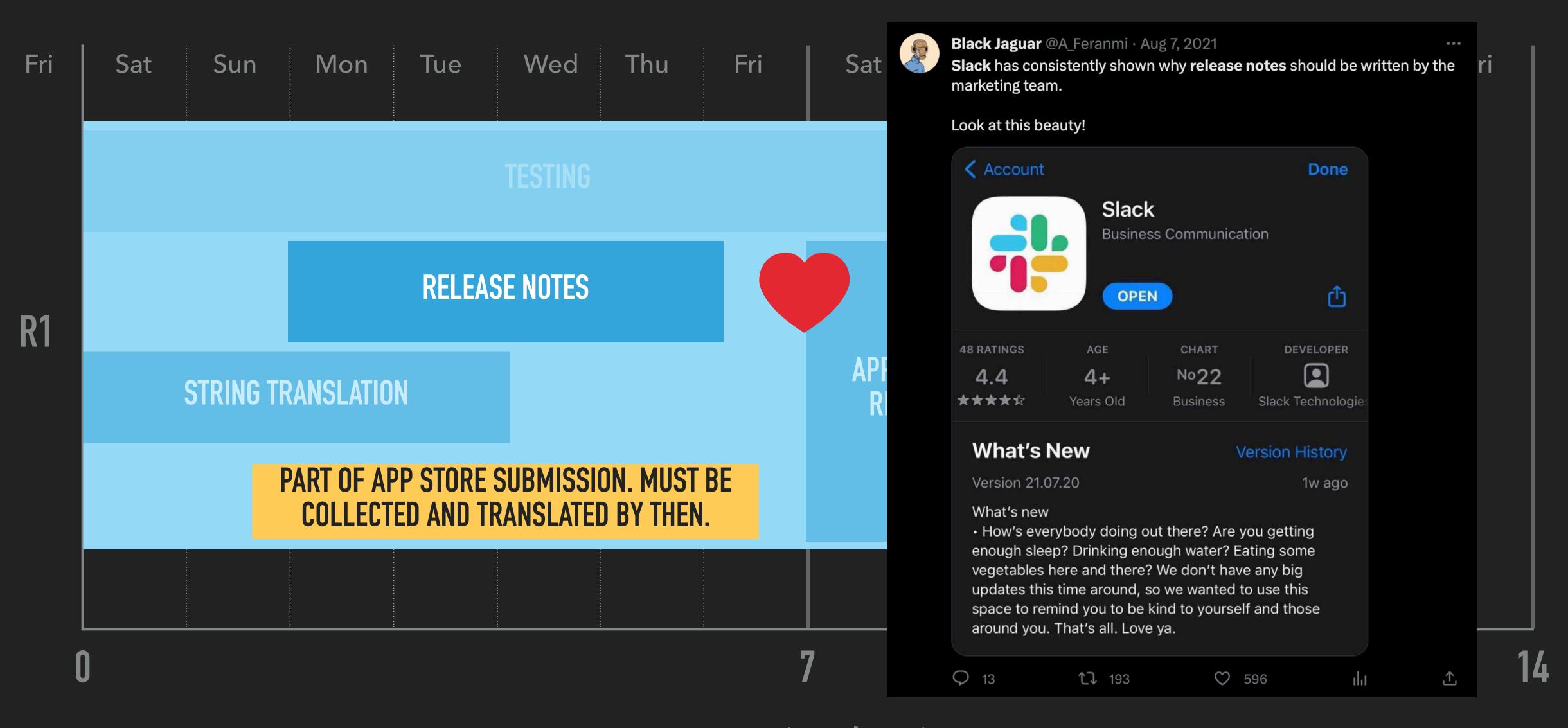




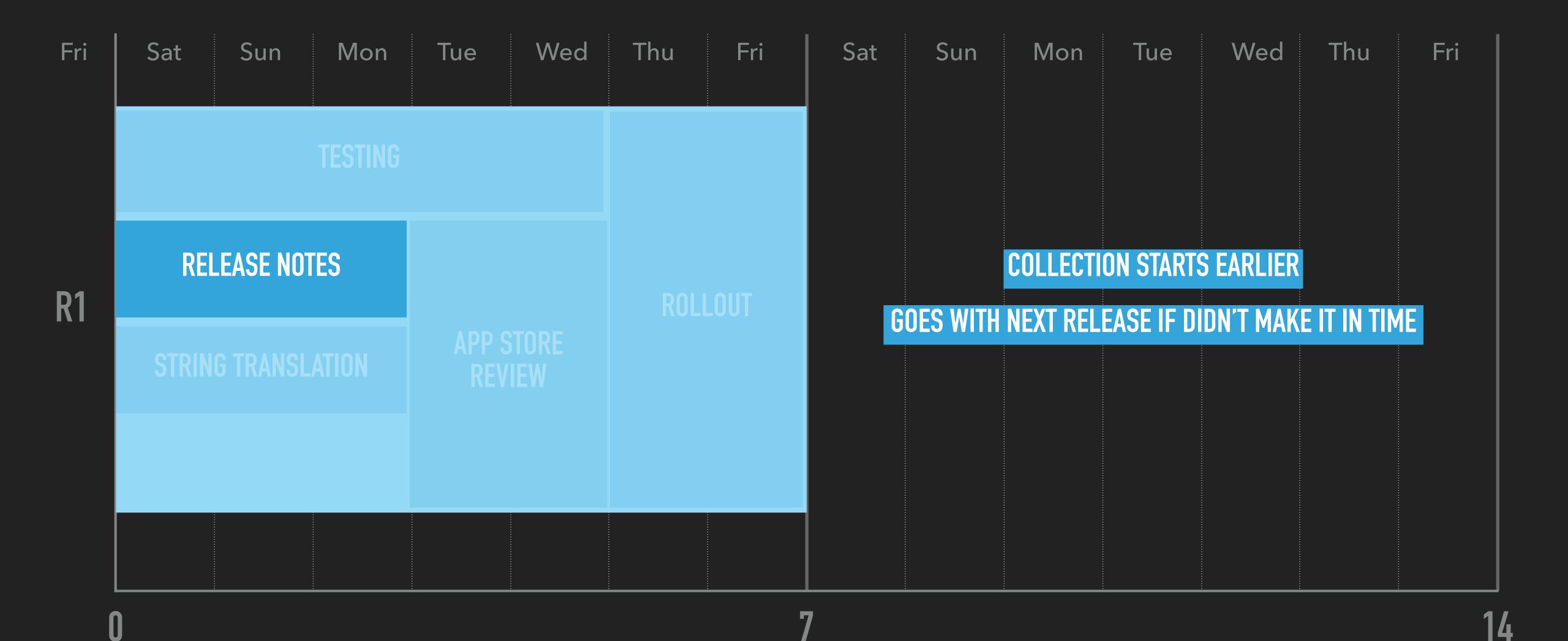
Time (in days)



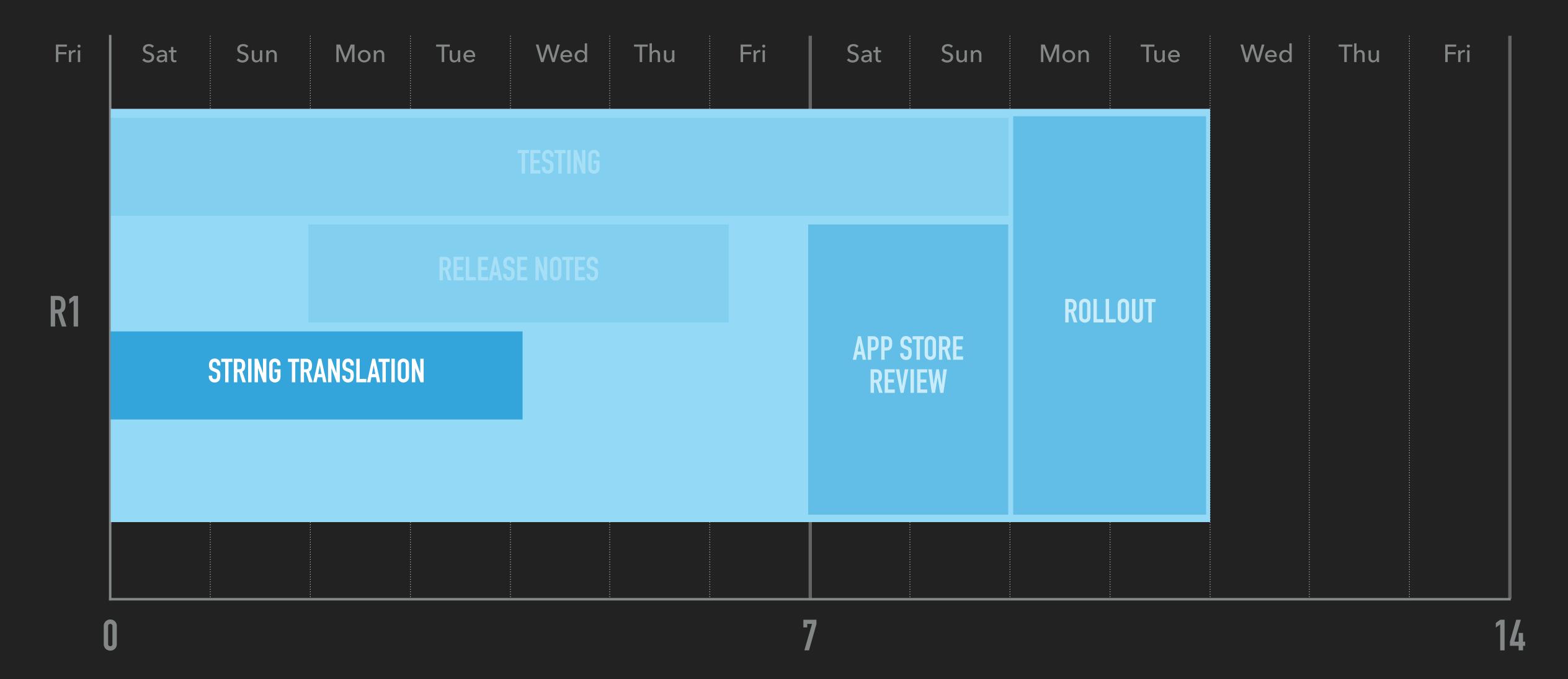




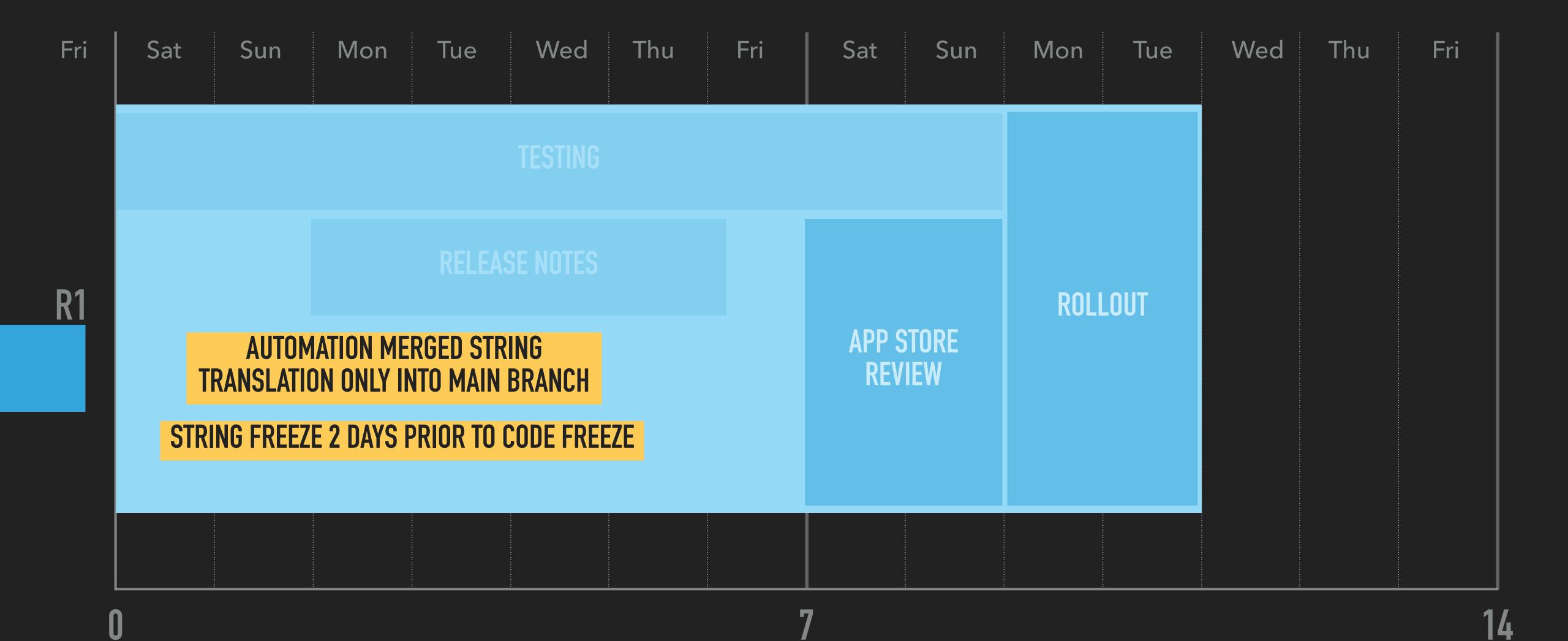
Time (in days)



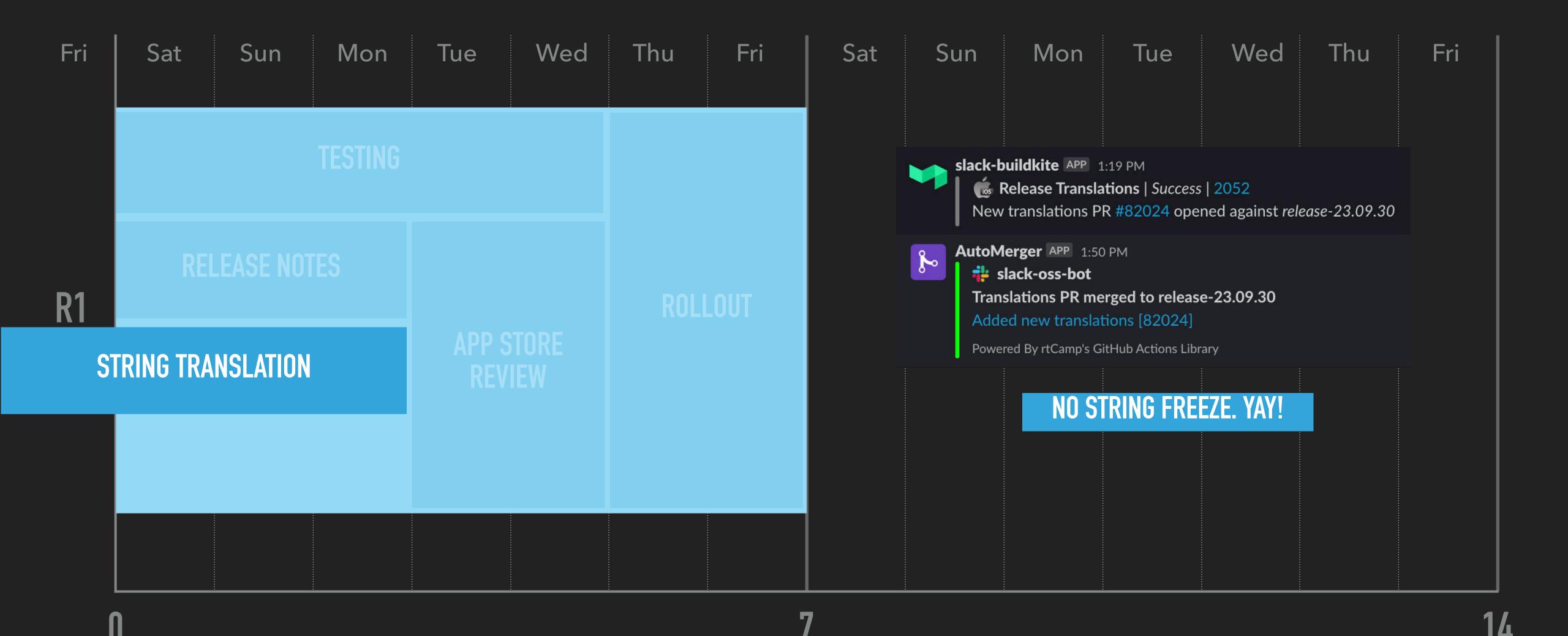
Time (in days)



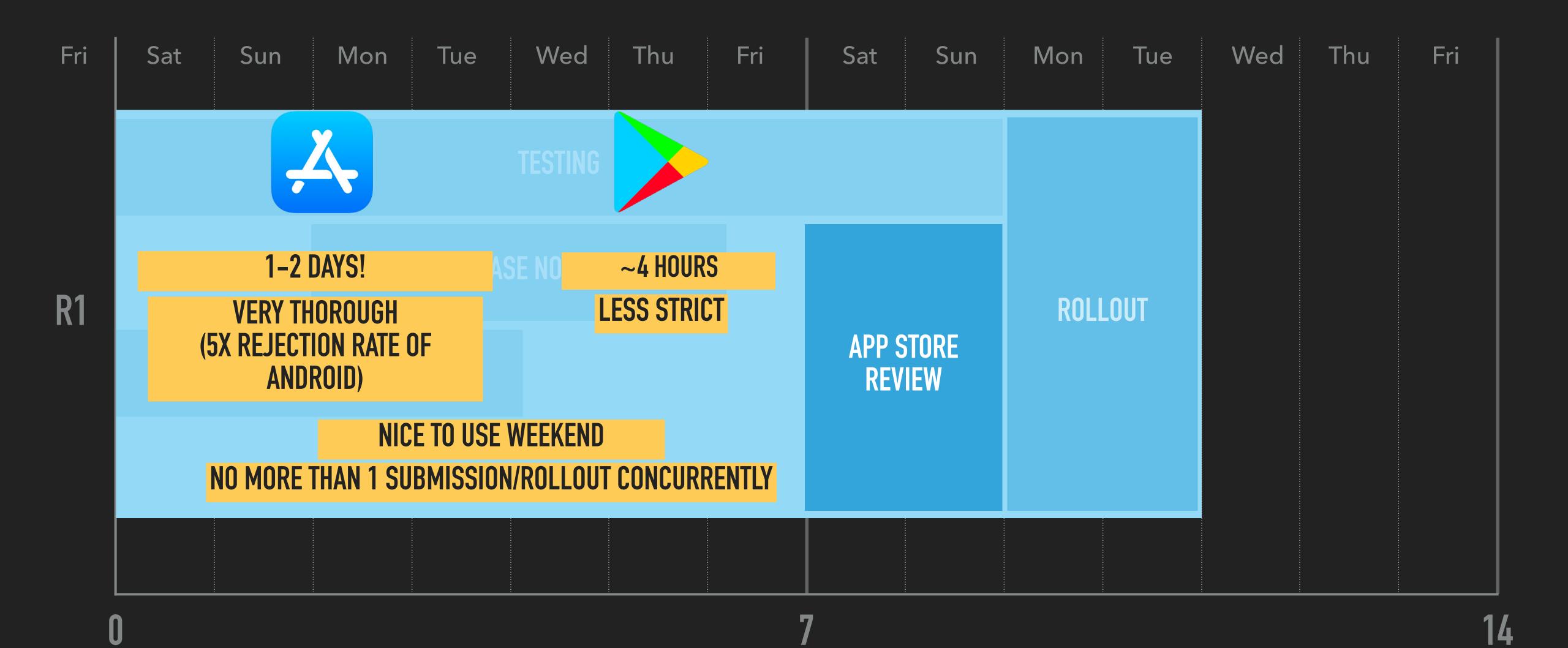
Time (in days)



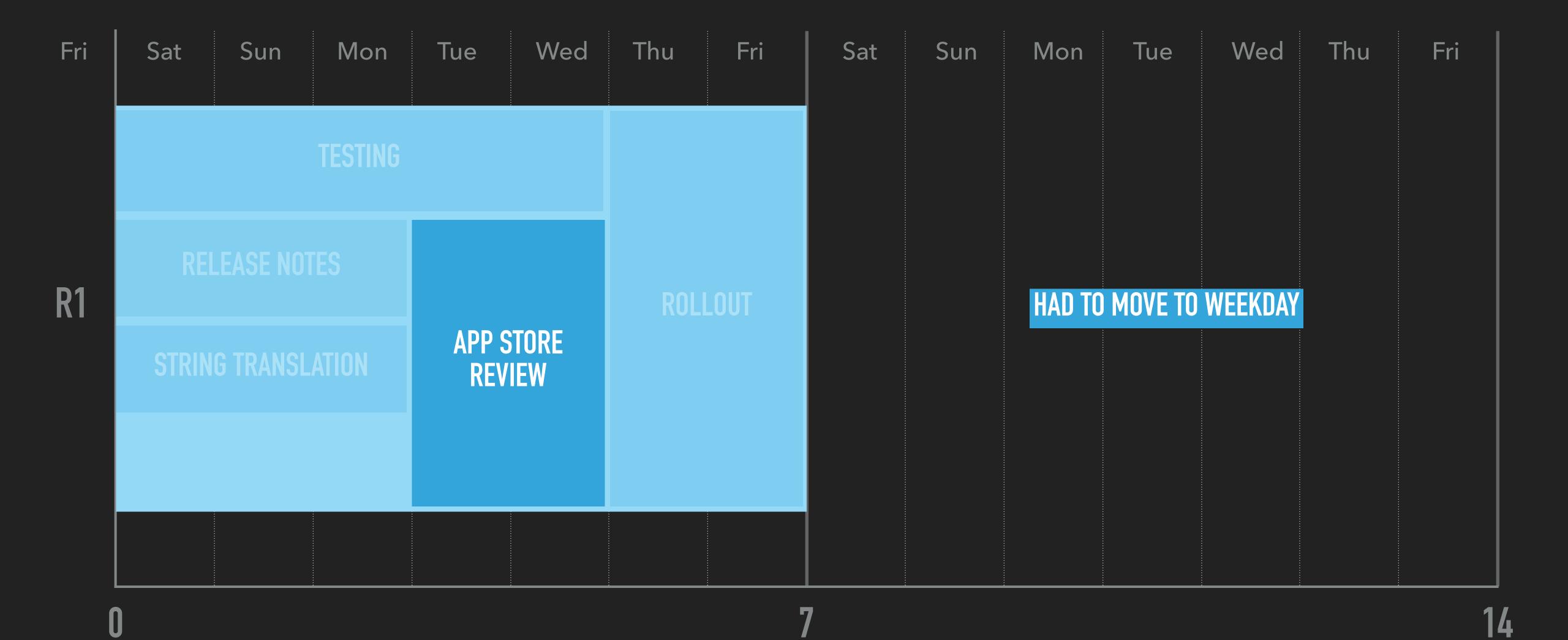
Time (in days)



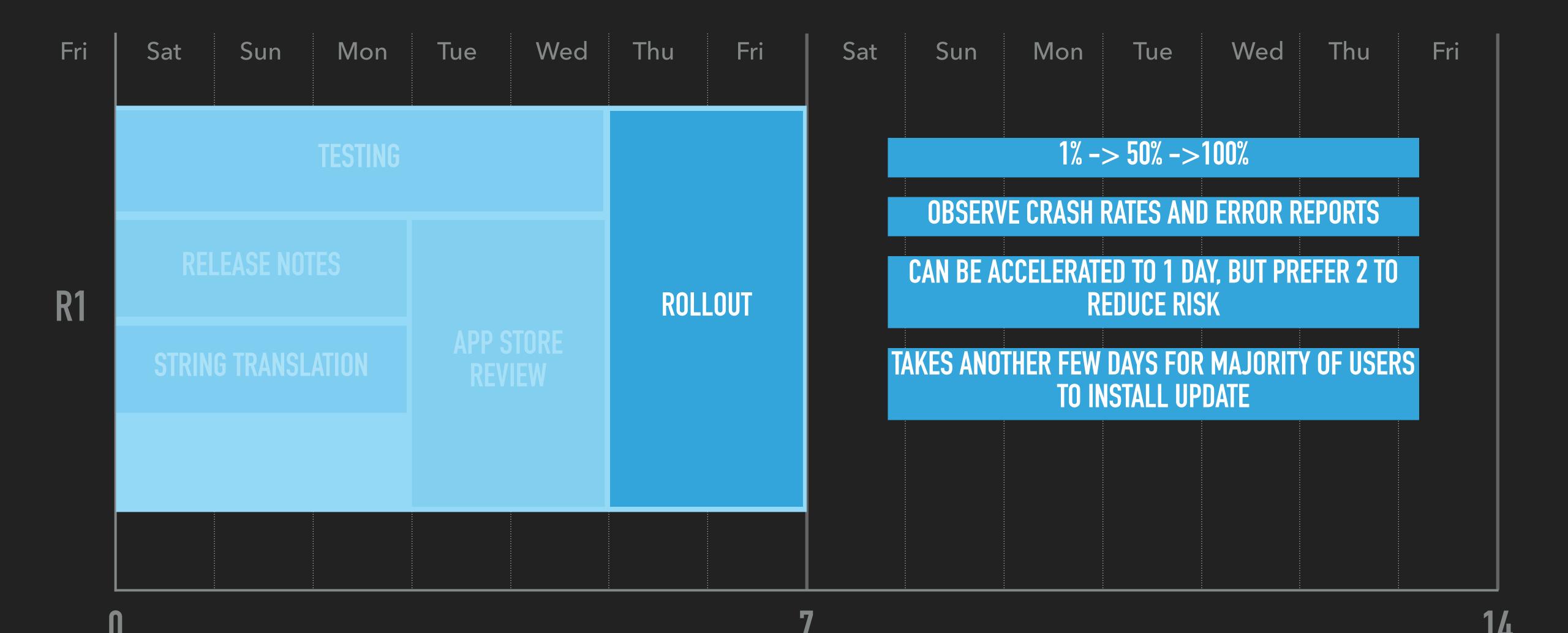
Time (in days)



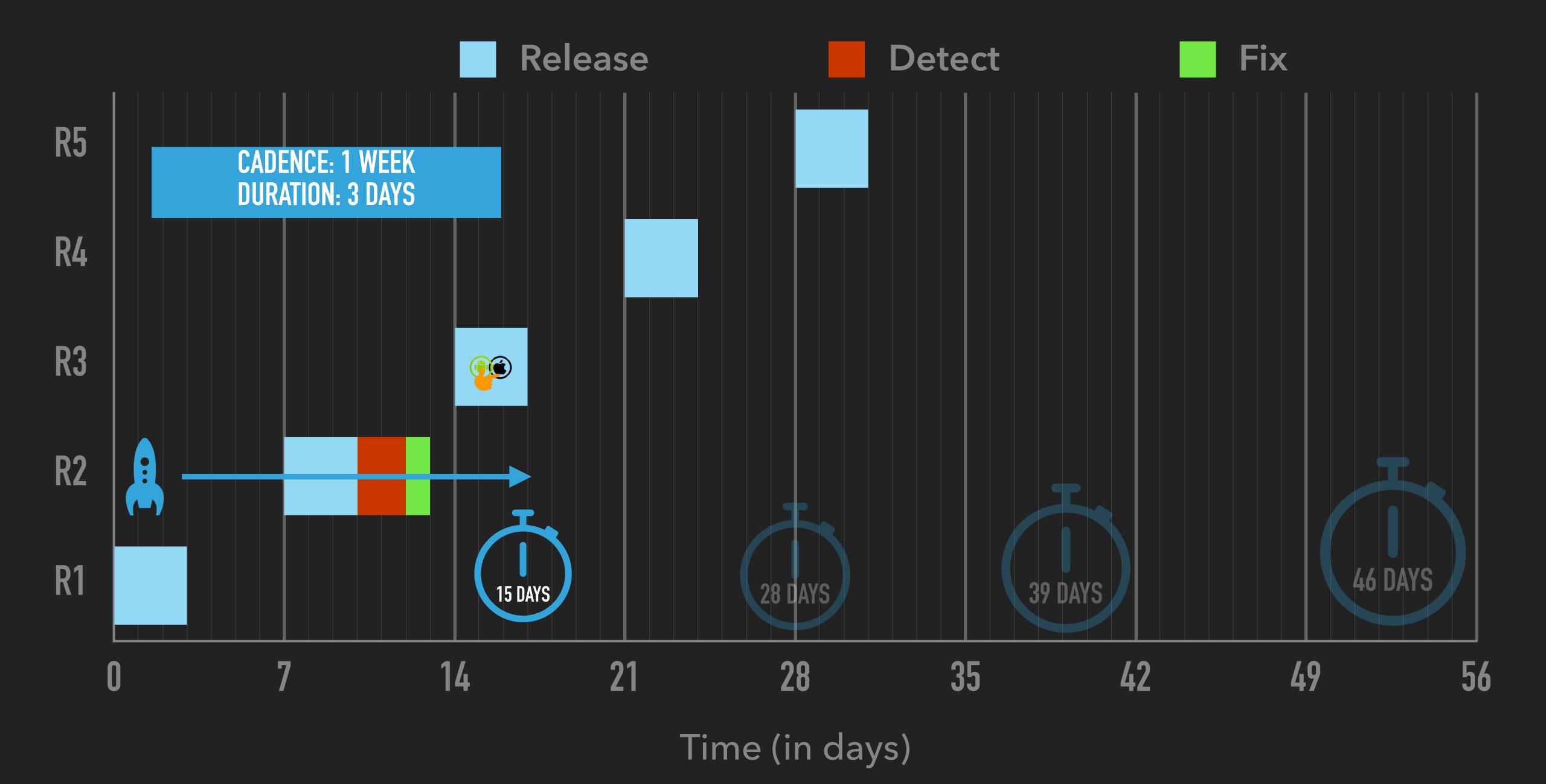
Time (in days)

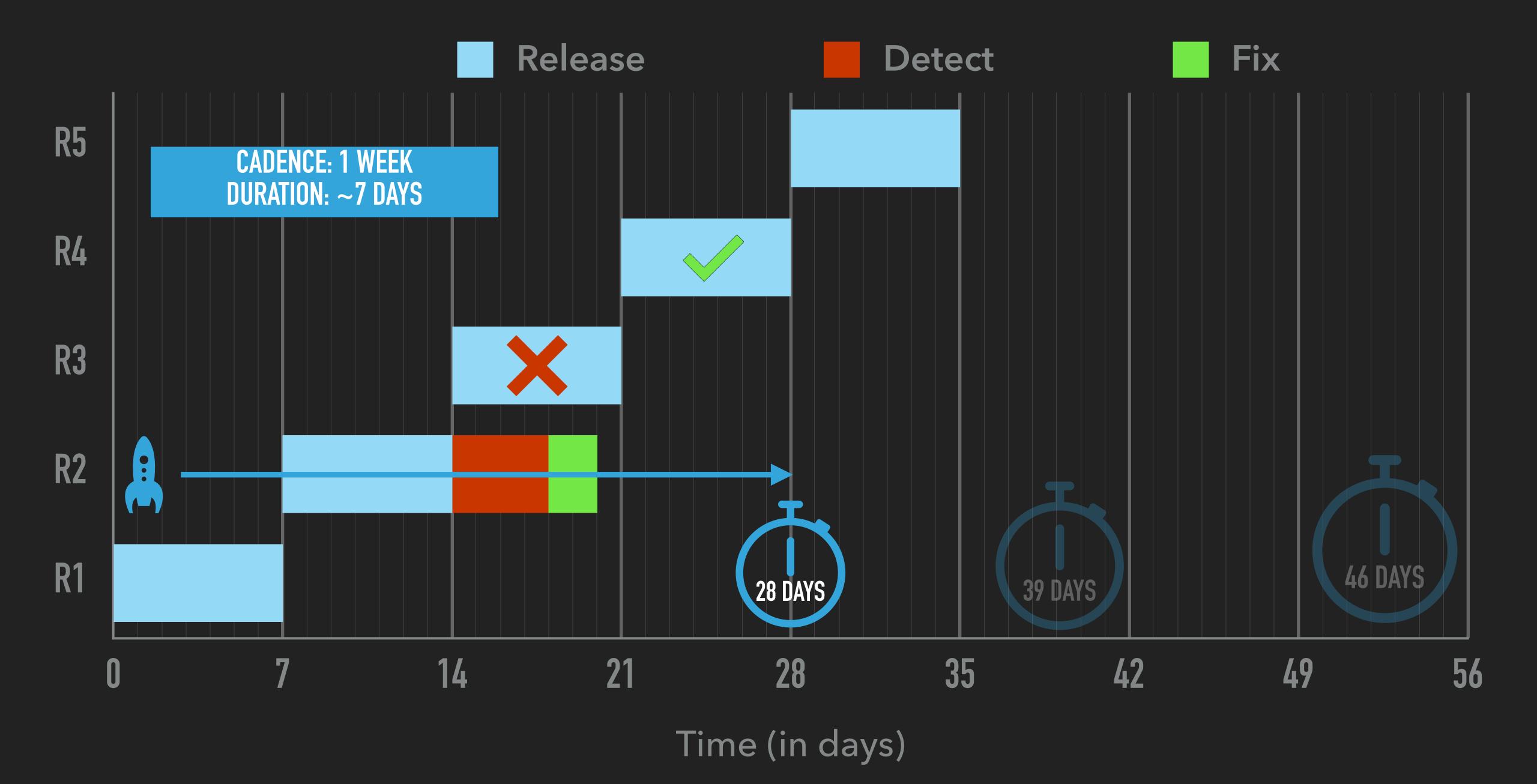


Time (in days)



Time (in days)





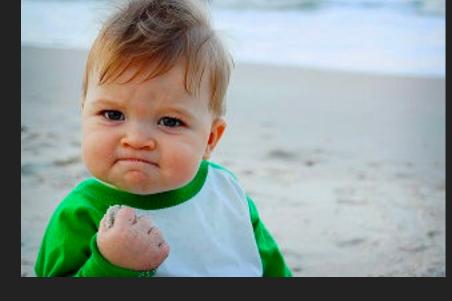


#### TALK TO FOLKS

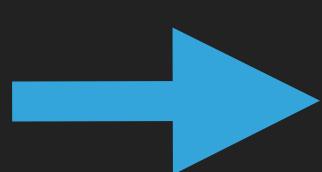
- Hopes
  - Faster iterations
  - More clarity on schedule
  - Reduced pressure to catch the train
  - Better stability
- Fears
  - Lower stability with reduced test time
  - Increased pressure to catch the train







- Success Criteria
  - Increased velocity
  - Increased clarity
  - Reduced pressure
  - No regression in stability





- Based on success criteria from interviews
- Baseline for human perception
- Chance to
  - gather more info
  - let everyone be heard

			Pressure	Sche	dule Clarity		Velocity			Safety		
			I/my team feel(s) pressure to "catch the release train" around string/code freeze.	I have clarity around when a change merged into the main branch will be available to dogfood users.	I have clarity around when a change merged into the main branch will be available to external beta users.	I have clarity around when a change merged into the main branch will become available to all external users.	I am satisfied with the speed at which changes from main branch become available to dogfood users.	I am satisfied with the speed at which changes from main branch become available to external beta users.	available to all external	regression test	Feature flagging is an effective way to mitigate risk for changes in our app.	
		Average	3.50	3.53	2.88	3.57	3.57	3.28	3.14	2.50	4.07	
Scale		Development	3.14	3.86	2.95	3.81	3.95	3.43	3.67	2.48	4.14	
5 = Strongly Agree		Design	3.80	•	,		3.00		<b>-</b>	•	_	
4 = Agree	Average by	Engineering Management	3.22	3.78	2.89	3.67	4.00	3.00	\ \ \	•	3.78	
3 = Neutral	discipline	Product Management	4.00	2.79	2.36	3.36	2.79	2.93	2.64	2.79	4.36	
2 = Disagree		Quality Engineering	3.71	4.00	3.29	3.29	3.71	3.86	3.29	2.14	4.14	
1 = Strongly Disagree		Program Management	3.50	5.00	5.00	5.00	4.00	4.00	3.00	1.50	3.50	
<u>Legend</u>	Average by	Product Engineering	3.81	3.60	2.95	3.67	3.55	3.36	3.21	2.55	4.24	
bad	Average by Product/Infra	Other	3.33	2.67	2.50	2.50	3.00	3.00	2.33	2.67	3.33	
green = good	Fioductiliia	Infrastructure	2.30	3.80	2.80	3.80	4.00	3.10	3.30	2.20	3.80	
		Android	3.25	3.63	3.25	3.94	4.00	3.69	3.69	2.38	4.25	
	Average by	Android iOS	3.89									
	Platform	iOS	3.07	3.80	2.60	3.20	3.73	3.20	3.27	2.60	3.87	

			Pressure	Schedule Clarity			Velocity			Safety	
			I/my team feel(s) pressure to "catch the release train" around	I have clarity around when a change merged into the main branch will be available to dogfood users.	I have clarity around when a change merged into the main branch will be available to external beta users.	I have clarity around when a change merged into the main branch will become available to all external users.	I am satisfied with the speed at which changes from main branch become available to dogfood users.	I am satisfied with the speed at which changes from main branch become available to external beta users.	I am satisfied with the speed at which changes from main branch become available to all external users.	I am comfortable with releasing "green" builds from main branch to all external users without waiting for results of the manual regression test pass.	Feature flagging is an effective way to mitigate risk for changes in our app.
		Average	3.50	3.53	2.88	3.57	3.57	3.28	3.14	2.50	4.07
<u>Scale</u>		Development	3.14	3.86	2.9	3.81	3.95	3.43	3.67	2.48	4.14
5 = Strongly Agree		Design	3.80	2.60	2.60	2.80	3.00	3.00	2.60	3.00	3.60
4 = Agree	Average by	<b>Engineering Management</b>	3.22	3.78	2.89	3.67	4.00	3.00	2.89	2.33	3.78
3 = Neutral	discipline	Product Management	4.00	2.79	2.36	3.36	2.79	2.93	2.64	2.79	4.36
2 = Disagree		Quality Engineering	3.71	4.00	3.29	3.29	3.71	3.86	3.29	2.14	4.14
1 = Strongly Disagree		Program Management	3.50	5.00	5.00	5.00	4.00	4.00	3.00	1.50	3.50
<u>Legend</u>	Average by	Product Engineering	3.81	3.60	2.9	3.67	3.55	3.36	3.21	2.55	4.24
bad	Average by Product/Infra	Other	3.33	2.67	2.50	2.50	3.00	3.00	2.33	2.67	3.33
green = good	rioddetiiiia	Infrastructure	2.30	3.80	2.80	3.80	4.00	3.10	3.30	2.20	3.80
	A	Android	3.25	3.63	3.25	3.94	4.00	3.69	3.69	2.38	4.25
	Average by Platform	Android iOS	3.89	3.33			3.22	3.07			
	Plationii	iOS	3.07	3.80	2.60	3.20	3.73	3.20	3.27	2.60	3.87

"WE TRY AND SQUEEZE UPDATES AND IMPROVEMENTS IN THE UPCOMING RELEASE, BECAUSE THE NEXT ONE IS TOO FAR. BY THE TIME THE CUSTOMER SEES OUR WORK – IT'S 1 MONTH OUT. IT SLOWS DOWN PACE OF SHIPPING, EXPERIMENTATION AND LEARNING ON MOBILE PLATFORMS. DESKTOP IS ABLE TO SHIP TO GA IN A DAY (WHICH WOULD BE THE DREAM). BUT, I CAN ONLY HOPE WE CAN MAKE IT QUICKER THAN WHAT IT IS TODAY."

Designer at Slack

			Pressure	Schedule Clarity			Velo	ocity	Safety		
			I/my team feel(s) pressure to "catch the release train" around	I have clarity around when a change merged into the main branch will be available to dogfood users.	I have clarity around when a change merged into the main branch will be available to external beta	I have clarity around when a change merged into the main branch will become available to all external users.	I am satisfied with the speed at which changes from main branch become available to dogfood users.	I am satisfied with the speed at which changes from main branch become available to external beta users.	I am satisfied with the speed at which changes from main branch become available to all external users.	external users without waiting for results of the manual regression test	Feature flagging is an effective way to mitigate risk for changes in our app.
		Average	3.50	3.53	2.88	3.57	3.57	3.28	3.14	2.50	4.07
<u>Scale</u>		Development	3.14	3.86	2.95	3.81	3.95	3.43	3.67	2.48	4.14
5 = Strongly Agree		Design	3.80			•	3.00	3.00	2.60	3.00	3.60
4 = Agree	Average by	<b>Engineering Management</b>	t 3.22	3.78	2.89	3.67	4.00	3.00	2.89	2.33	3.78
3 = Neutral	discipline	Product Management	4.00	2.79	2.36	3.36	2.79	2.93	2.64	2.79	4.36
2 = Disagree		Quality Engineering	3.71	4.00	3.29	3.29	3.71	3.86	3.29	2.14	4.14
1 = Strongly Disagree		Program Management	3.50	5.00	5.00	5.00	4.00	4.00	3.00	1.50	3.50
<u>Legend</u>	Averege by	Product Engineering	3.81	3.60	2.95	3.67	3.55	3.36	3.21	2.55	4.24
bad	Average by Product/Infra	Other	3.33	2.67	2.50	2.50	3.00	3.00	2.33	2.67	3.33
green = good	Fioductiliia	Infrastructure	2.30	3.80	2.80	3.80	4.00	3.10	3.30	2.20	3.80
		Android	3.25	3.63	3.25	3.94	4.00	3.69	3.69	2.38	4.25
	Average by	Android iOS	3.89							•	
	Platform	iOS	3.07	3.80			3.73	3.20	3.27	2.60	

"I HAVE NO IDEA — WHAT ARE EXTERNAL BETA USERS?"

A PRODUCT MANAGER

"THERE ARE SEVERAL CUT OFFS THAT I HAVE TO CONSISTENTLY ASK AGAIN OR SECOND GUESS JUST IN CASE I CONFUSE MYSELF OR CONFUSE OTHERS."

A DEVELOPER

			Pressure	Schedule Clarity			Velocity			Safety	
			pressure to "catch the release train" around	I have clarity around when a change merged into the main branch will be available to dogfood users.	I have clarity around when a change merged into the main branch will be available to external beta users.	I have clarity around when a change merged into the main branch will become available to all external users.	I am satisfied with the speed at which changes from main branch become available to dogfood users.	I am satisfied with the speed at which changes from main branch become available to external beta users.	I am satisfied with the speed at which changes from main branch become available to all external users.	I am comfortable with releasing "green" builds from main branch to all external users without waiting for results of the manual regression test pass.	Feature flagging is an effective way to mitigate risk for changes in our app.
		Average	3.50	3.53	2.88	3.57	3.57	3.28	3.14	2.50	4.07
<u>Scale</u>		Development	3.14	3.86	2.95	3.81	3.95	3.43	3.67	2.48	4.14
5 = Strongly Agree		Design	3.80	2.60	2.60	2.80	3.00	3.00	2.60	3.00	3.60
4 = Agree	Average by	Engineering Management	3.22	3.78	2.89	3.67	4.00	3.00	2.89	2.33	3.78
3 = Neutral	discipline	Product Management	4.00	2.79	2.36	3.36	2.79	2.93	2.64	2.79	4.36
2 = Disagree		Quality Engineering	3.71	4.00	3.29	3.29	3.71	3.86	3.29	2.14	4.14
1 = Strongly Disagree		Program Management	3.50	5.00	5.00	5.00	4.00	4.00	3.00	1.50	3.50
<u>Legend</u>	Average by	Product Engineering	3.81	3.60	2.95	3.67	3.55	3.36	3.21	2.55	4.24
bad	Average by Product/Infra	Other	3.33	2.67	2.50	2.50	3.00	3.00	2.33	2.67	3.33
green = good	Troductima	Infrastructure	2.30	3.80	2.80	3.80	4.00	3.10	3.30	2.20	3.80
		Android	3.25	3.63	3.25	3.94	4.00	3.69	3.69	2.38	4.25
	Average by	Android iOS	3.89								
	Platform	ios	3.07	3.80	2.60	3.20	3.73	3.20	3.27	2.60	3.87

"OTHER PLACES I'VE BEEN THE WAIT HAS BEEN EVEN LONGER. I FIND SLACK'S CURRENT TIMING FINE."

A DEVELOPER

"2 WEEKS IS A LONG TIME IN THE MODERN WORLD OF SOFTWARE"

A DESIGNER

			Pressure	Schedule Clarity			Velo	ocity	Safety		
			I/my team feel(s) pressure to "catch the release train" around	I have clarity around when a change merged into the main branch will be available to dogfood users.	I have clarity around when a change merged into the main branch will be available to external beta users.	I have clarity around when a change merged into the main branch will become available to all external users.	I am satisfied with the speed at which changes from main branch become available to dogfood users.	I am satisfied with the speed at which changes from main branch become available to external beta users.	I am satisfied with the speed at which changes from main branch become available to all external users.	I am comfortable with releasing "green" builds from main branch to all external users without waiting for results of the manual regression test pass.	Feature flagging is an effective way to mitigate risk for changes in our app.
		Average	3.50	3.53	3 2.88	8 3.57	7 3.57	7 3.28	3.14	4 2.50	4.07
<u>Scale</u>		Development	3.14	3.86	2.95	5 3.81	1 3.95	3.43	3.67	2.48	4.14
5 = Strongly Agree		Design	3.80	2.60	2.60	2.80	3.00	3.00	2.60	3.00	3.60
4 = Agree	Average by	Engineering Management	3.22	3.78	2.89	9 3.67	4.00	3.00	2.89	2.33	3.78
3 = Neutral	discipline	Product Management	4.00	2.79	2.36	3.36	2.79	2.93	2.64	2.79	4.36
2 = Disagree		Quality Engineering	3.71	4.00	3.29	9 3.29	3.71	3.86	3.29	9 2.14	4.14
1 = Strongly Disagree		Program Management	3.50	5.00	5.00	0 5.00	4.00	4.00	3.00	1.50	3.50
<u>Legend</u>	A	Product Engineering	3.81	3.60	2.95	5 3.67	7 3.55	5 3.36	3.21	1 2.55	4.24
bad	Average by	Other	3.33			-		•		•	
green = good	Product/Infra	Infrastructure	2.30	3.80	2.80	3.80	4.00	3.10	3.30	2.20	<b>T</b>
	Average by	Android	3.25	3.63	3 3.25	5 3.94	4 4.00	3.69	3.69	2.38	4.25
	Average by	Android iOS	3.89	3.33	2.81	1 3.56	3.22	3.07	2.74	2.52	4.07
	Platform	ios	3.07	3.80	2.60	3.20	3.73	3.20	3.27	7 2.60	3.87

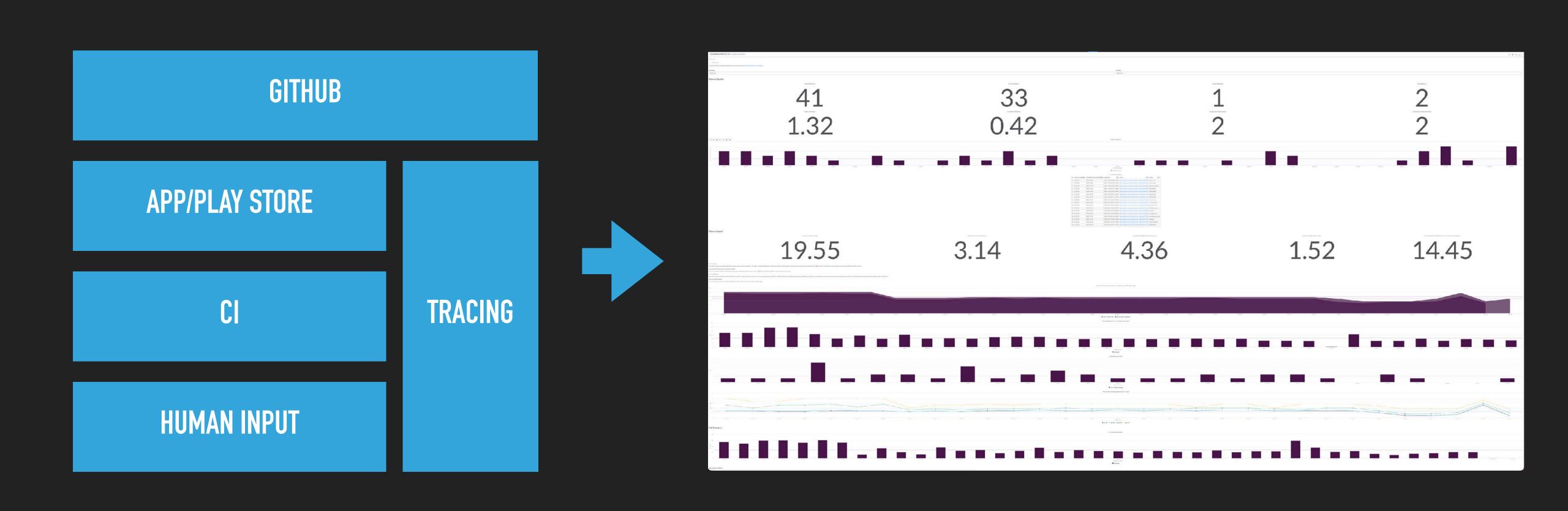
"WE NEED TO IMPROVE (A LOT) ON OUR AUTOMATE TESTING BEFORE I CAN COMFORTABLE WITH THIS."

A DEVELOPER

"JUST BECAUSE THE BUILD IS "GREEN", IT DOESN'T MEAN THAT THERE ARE NO CRITICAL ISSUES. WE SHOULD ALWAYS HAVE MANUAL REGRESSION PASS BEFORE RELEASING TO EXTERNAL USERS"

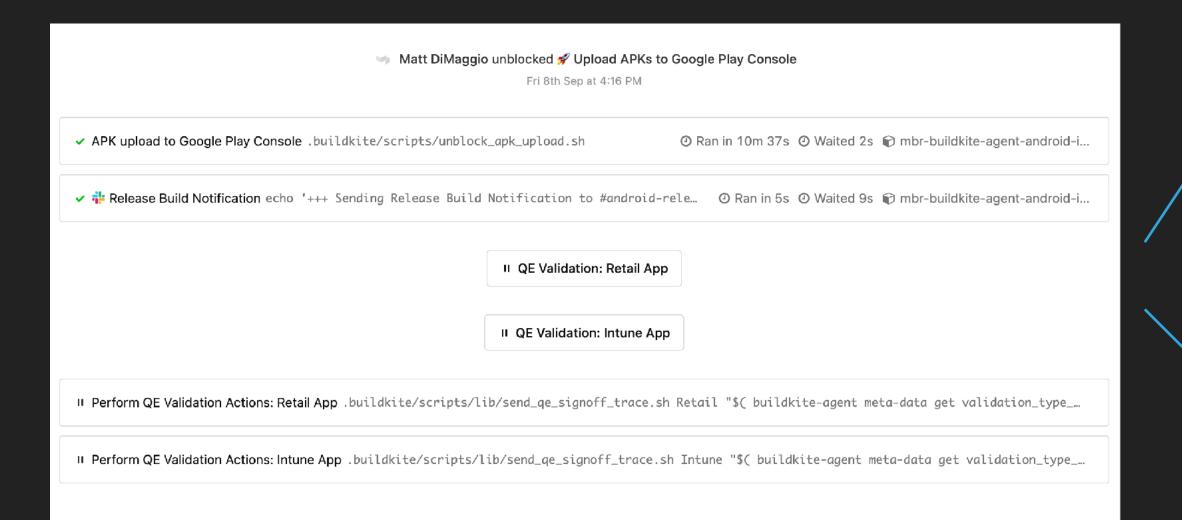
AN ENGINEERING MANAGER

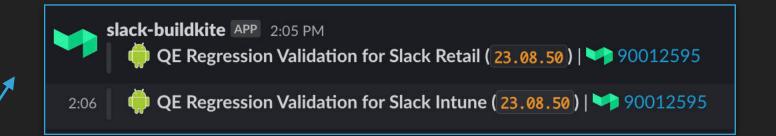


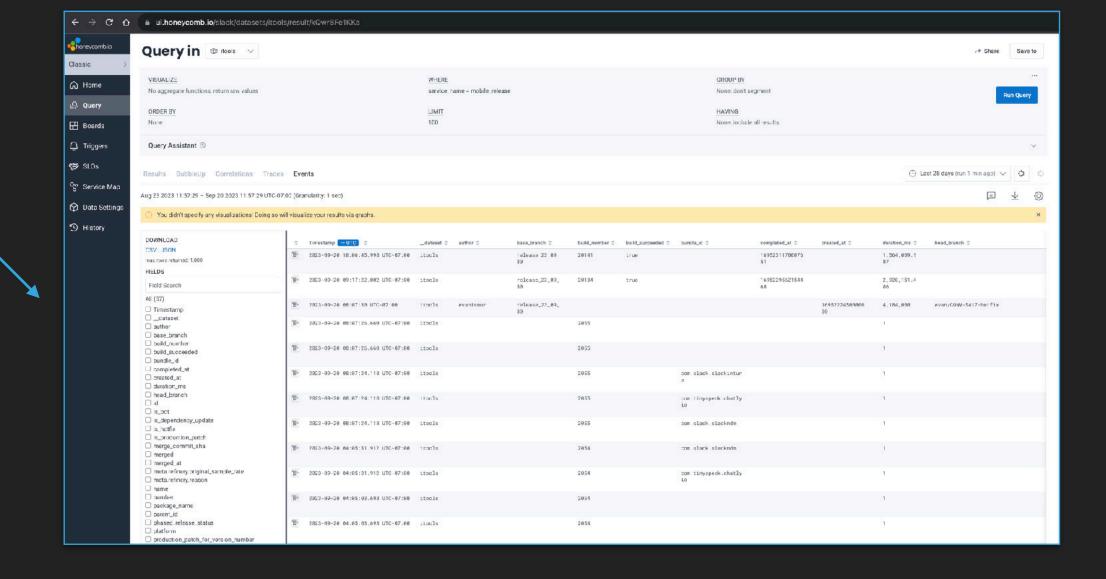


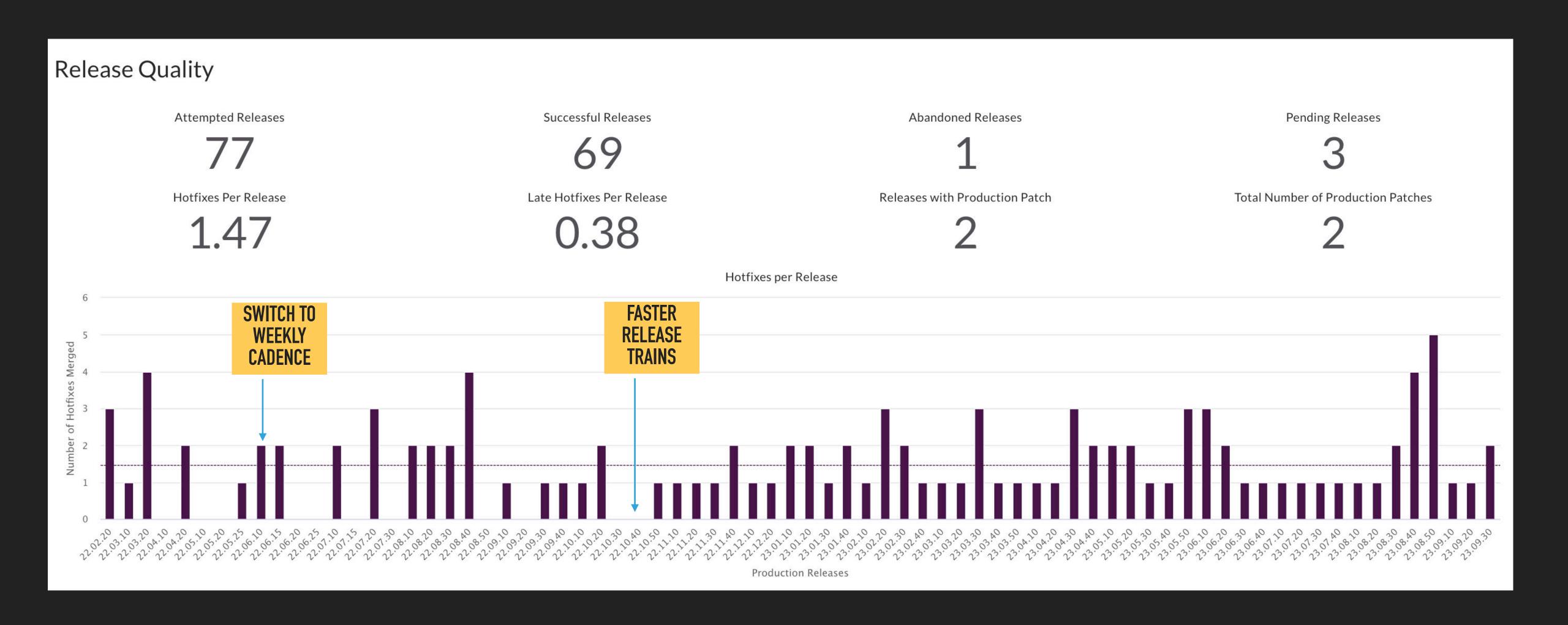
# INSTRUMENT THE PROCESS

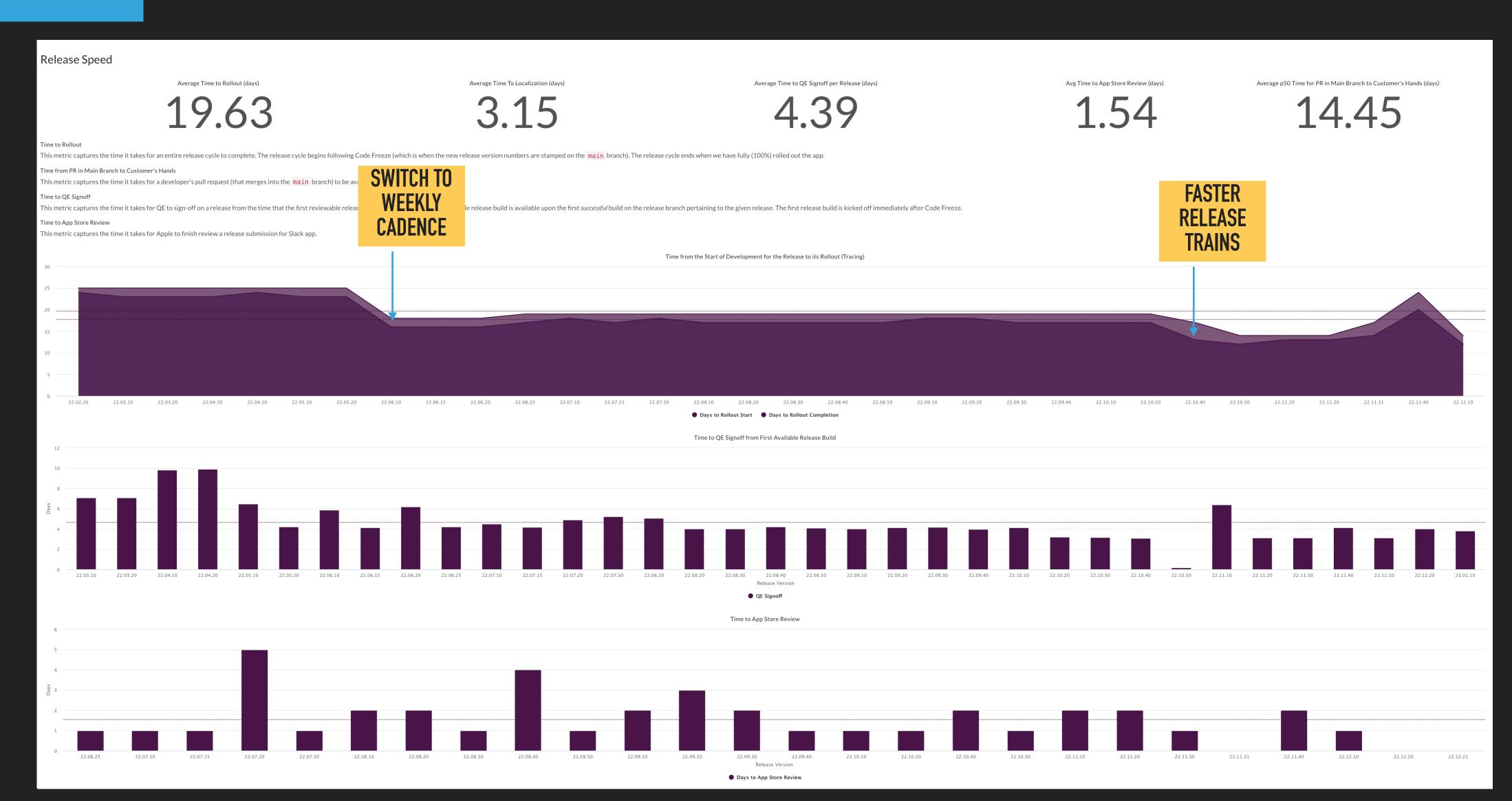
#### **HUMAN INPUT**

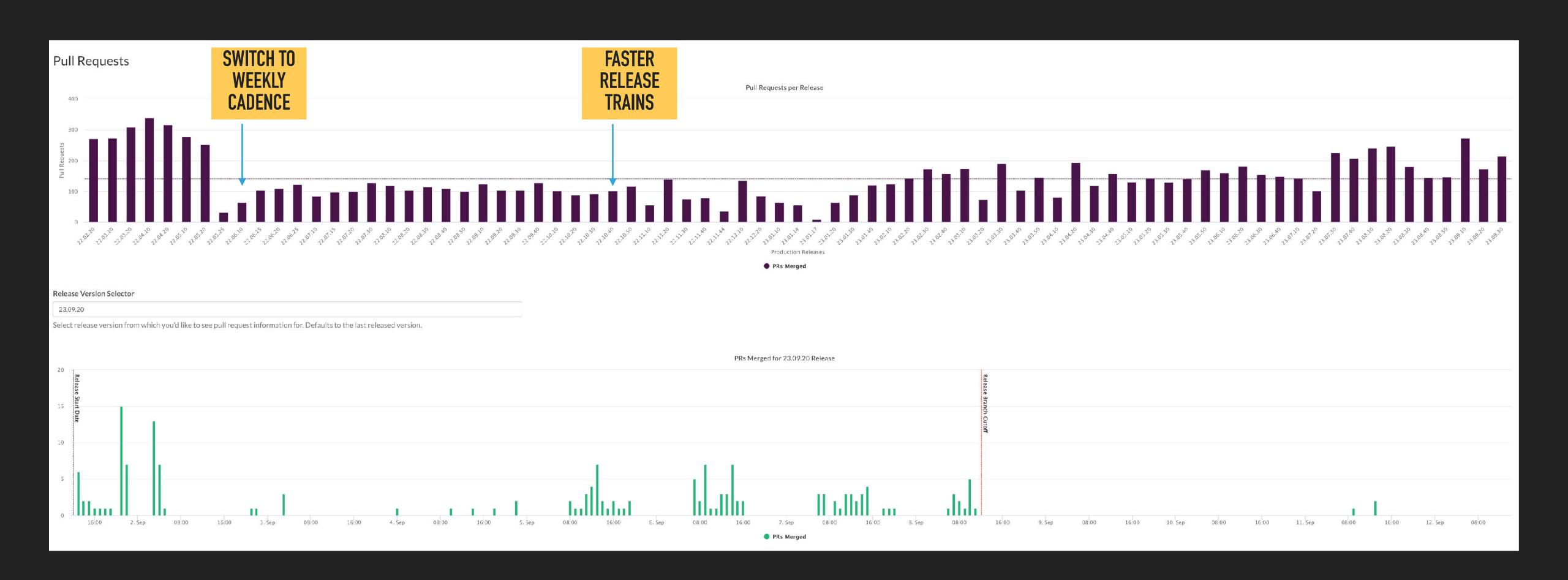














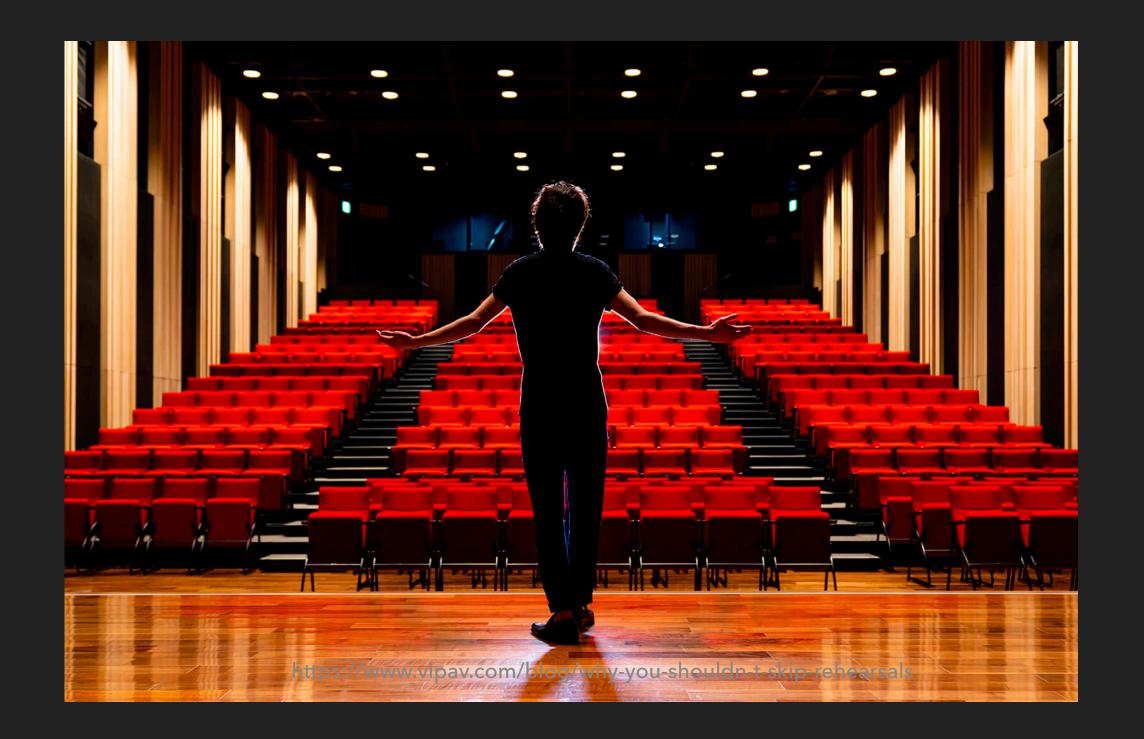
#### MITIGATE RISK

- Make the change incrementally
  - Stage 1: Increase release frequency
  - Stage 2: Increase release speed



## MITIGATE RISK

- Practice with a dry-run
  - Go through the process, but skip rollout



			Pressure	Schedule Clarity			Velocity			Safety	
			I/my team feel(s) pressure to "catch the release train" around string/code freeze.	I have clarity around when a change merged into the main branch will be available to dogfood users.	I have clarity around when a change merged into the main branch will be available to external beta users.	I have clarity around when a change merged into the main branch will become available to all external users.	I am satisfied with the speed at which changes from main branch become available to dogfood users.	I am satisfied with the speed at which changes from main branch become available to external beta users.	I am satisfied with the speed at which changes from main branch become available to all external users.	I am comfortable with releasing "green" builds from main branch to all external users without waiting for results of the manual regression test pass.	Feature flagging is an effective way to mitigate risk for changes in our app.
		Average	3.50	3.53	2.88	3.57	3.57	3.28	3.14	2.50	4.07
<u>Scale</u>		Development	3.14	3.86	2.99	3.81	3.95	3.43	3.67	2.48	4.14
5 = Strongly Agree		Design	3.80	2.60	2.60	2.80	3.00	3.00	2.60	3.00	3.60
4 = Agree	Average by	<b>Engineering Management</b>	3.22	3.78	2.89	3.67	4.00	3.00	2.89	2.33	3.78
3 = Neutral	discipline	Product Management	4.00	2.79	2.30	3.36	2.79	2.93	2.64	2.79	4.36
2 = Disagree		Quality Engineering	3.71	4.00	3.29	3.29	3.71	3.86	3.29	2.14	4.14
1 = Strongly Disagree		Program Management	3.50	5.00	5.00	5.00	4.00	4.00	3.00	1.50	3.50
Legend		Draduct Engineering	2.01	2.60	2.00	2.67	2.55	2.26	2.00	2.55	4.24
<u>Legend</u>	Average by	Product Engineering Other	3.81								
green = good	Product/Infra	Infrastructure	2.30			_	<b>,</b>	•			
3.00m			2.00	0.00	2.00	0.00	1.00	0.10	0.00	2.20	0.00
	Average by	Android	3.25	3.63	3.25	3.94	4.00	3.69	3.69	2.38	4.25
	Average by Platform	Android iOS	3.89	3.33	2.8	1 3.56	3.22	3.07	2.74	2.52	4.07
	Fiationiii	ios	3.07	3.80	2.60	3.20	3.73	3.20	3.27	7 2.60	3.87

#### MITIGATE RISK

- Feature flags
  - Not a silver bullet
  - Measure % or change behind flag?



Spend \$\$\$
on AI to save
devs a few
minutes per day



Spend \$\$\$
on AI to analyze
unstructured
data for
benefit of reliability

#### **MITIGATE RISK**

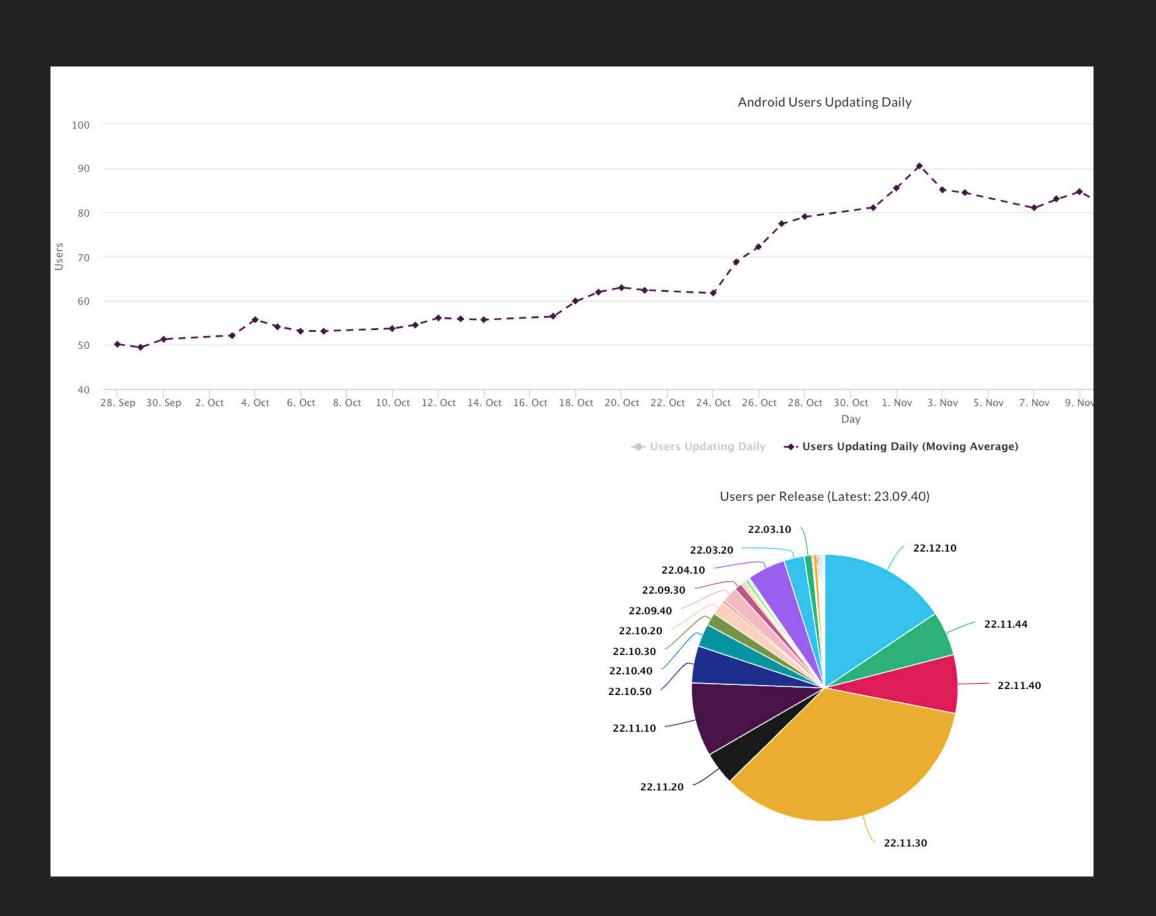
- Dogfood (internal testing)
  - Reduced time to catch errors
  - Compensated by increase in usage

<u>^</u>

**Update Available** 

Some tasty new bytes from Slack.

Update AvailableSome tasty new bytes from Slack.



# LIVE WITH RISK

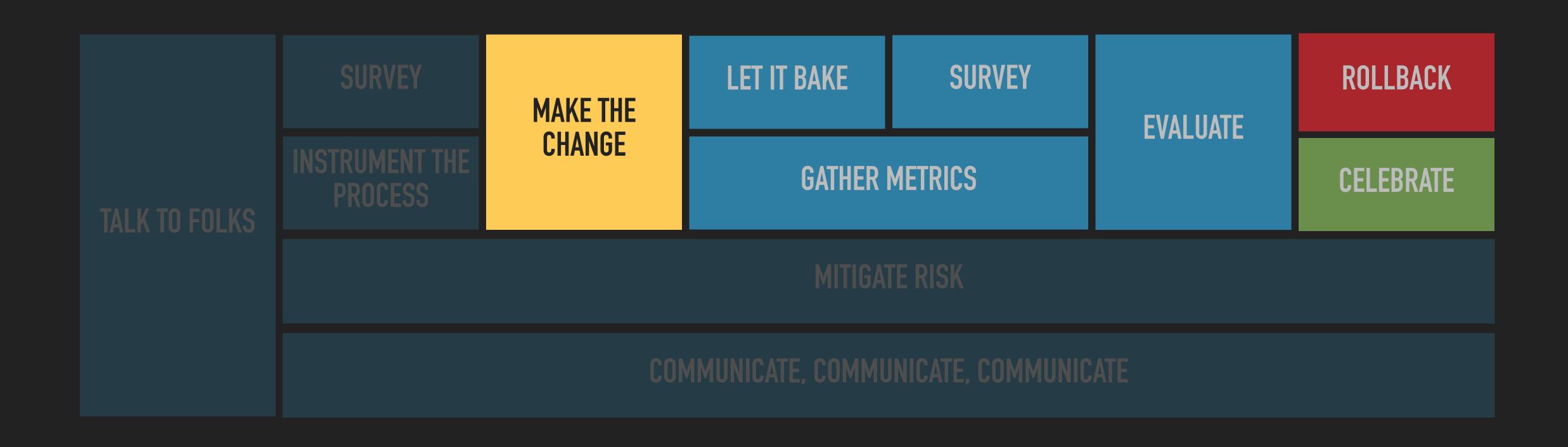


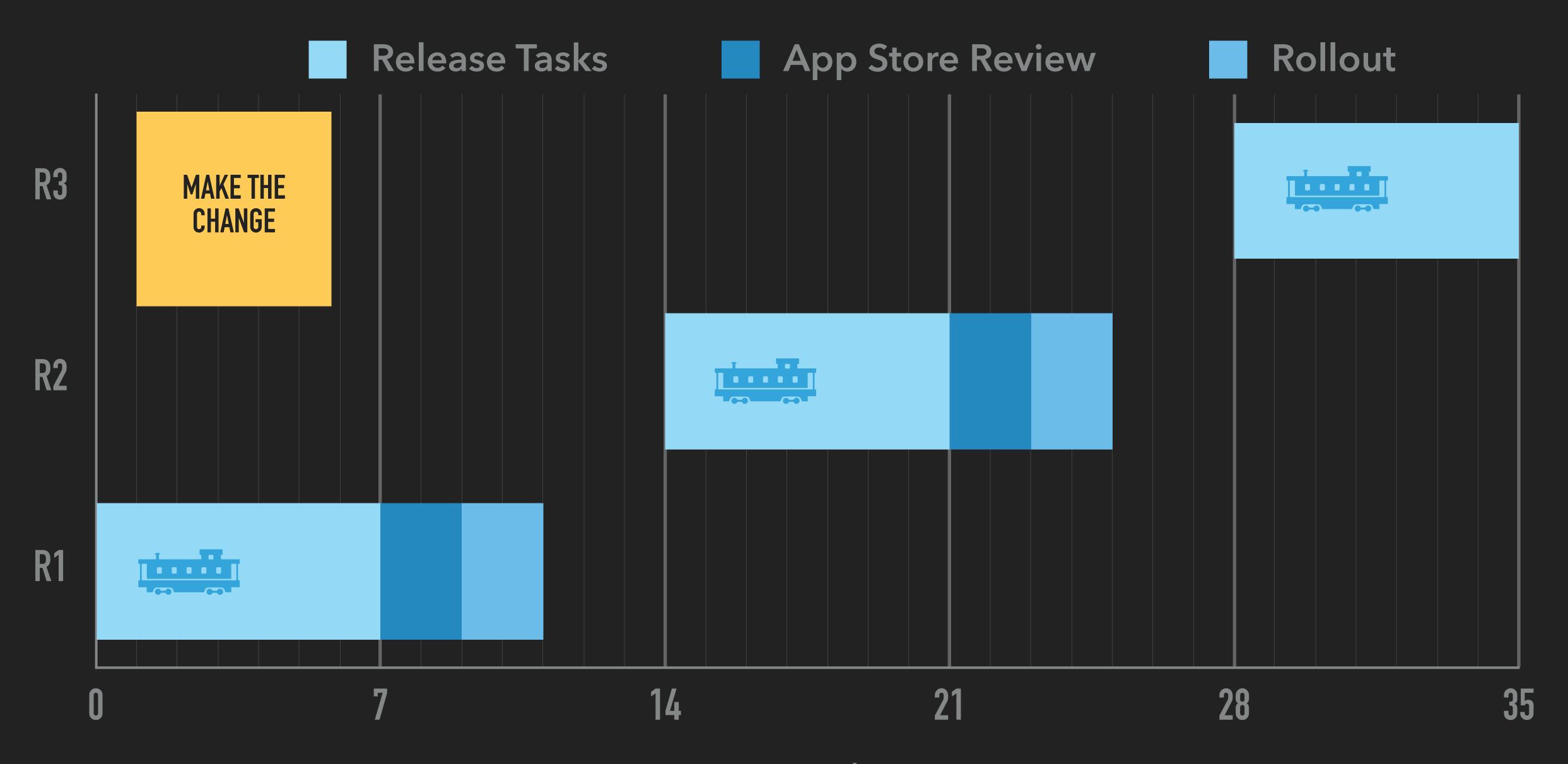


#### COMMUNICATE, COMMUNICATE, COMMUNICATE

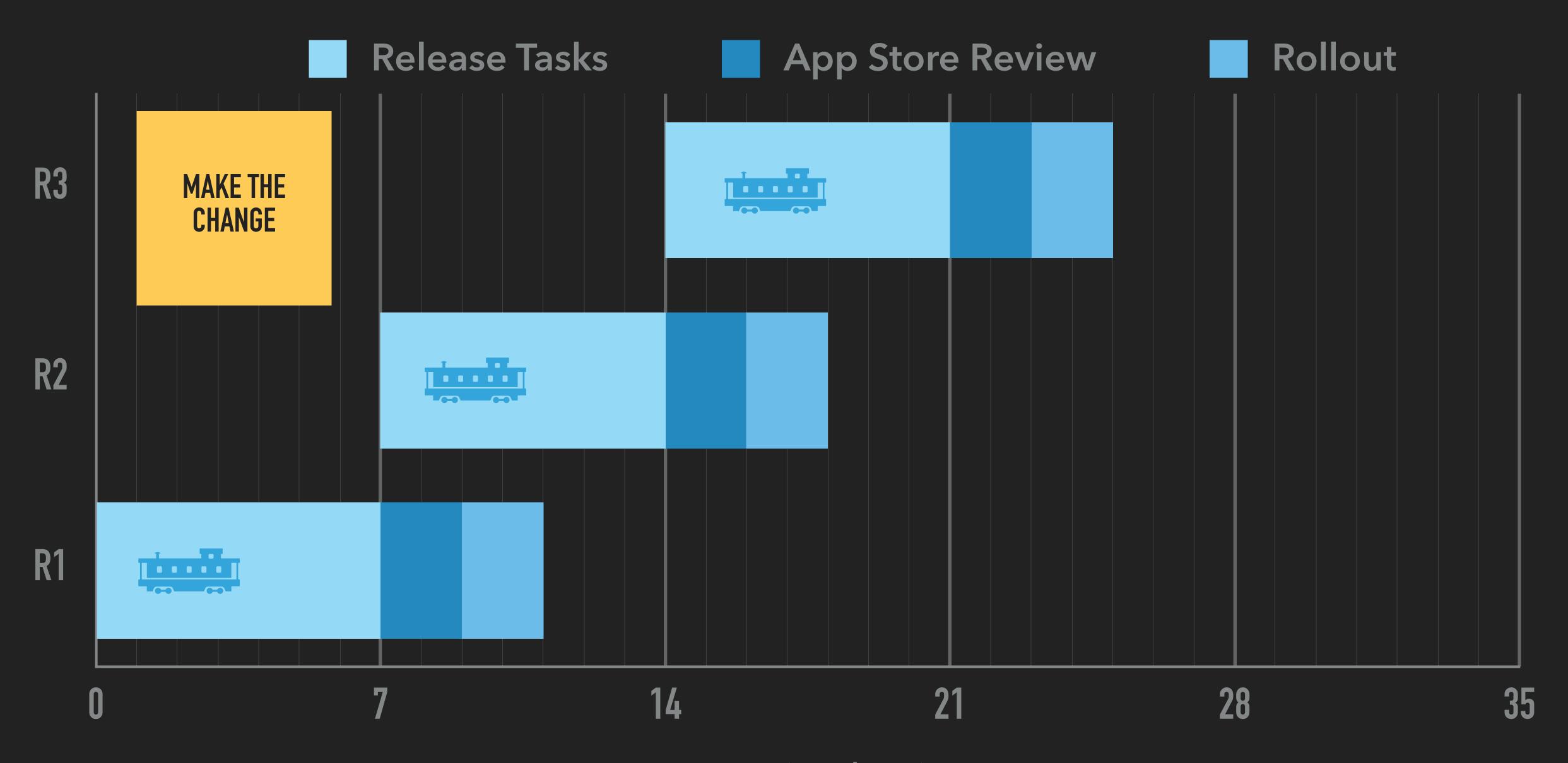
- Repetition
- Repetition
- Keep it Real
- Educate
- Emphasis: Experimentation and Success Criteria



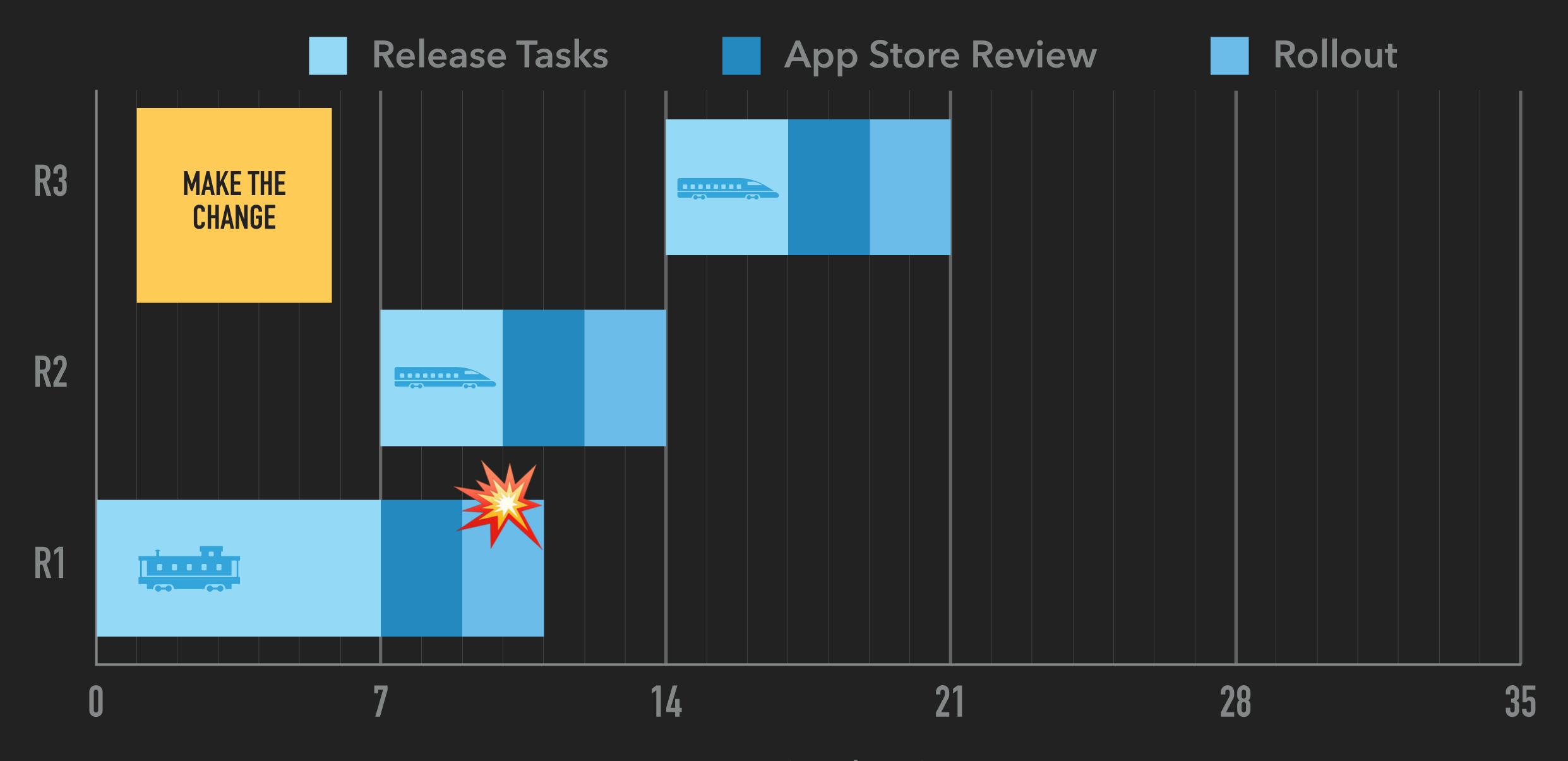




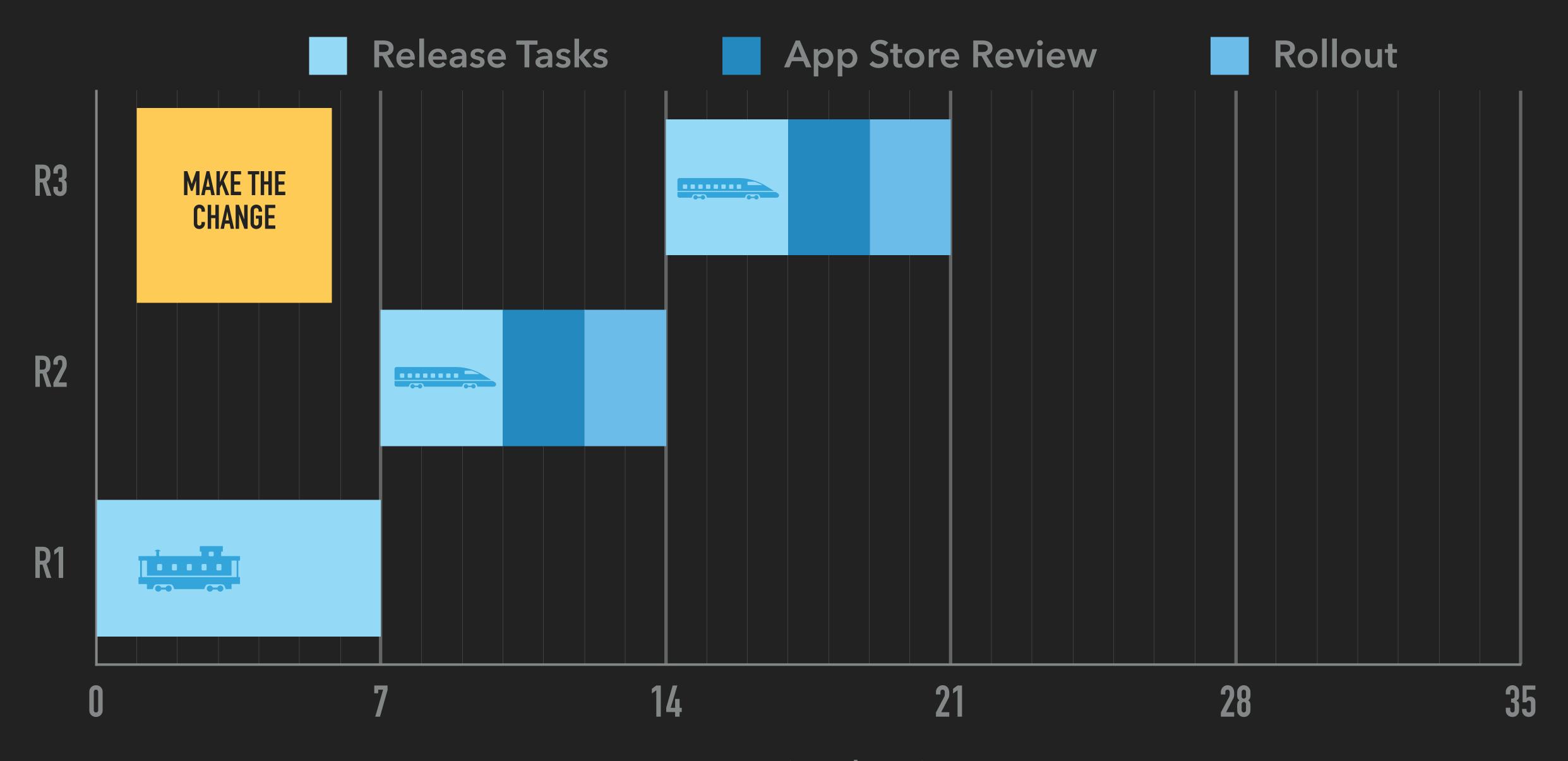
Time (in days)



Time (in days)



Time (in days)



Time (in days)

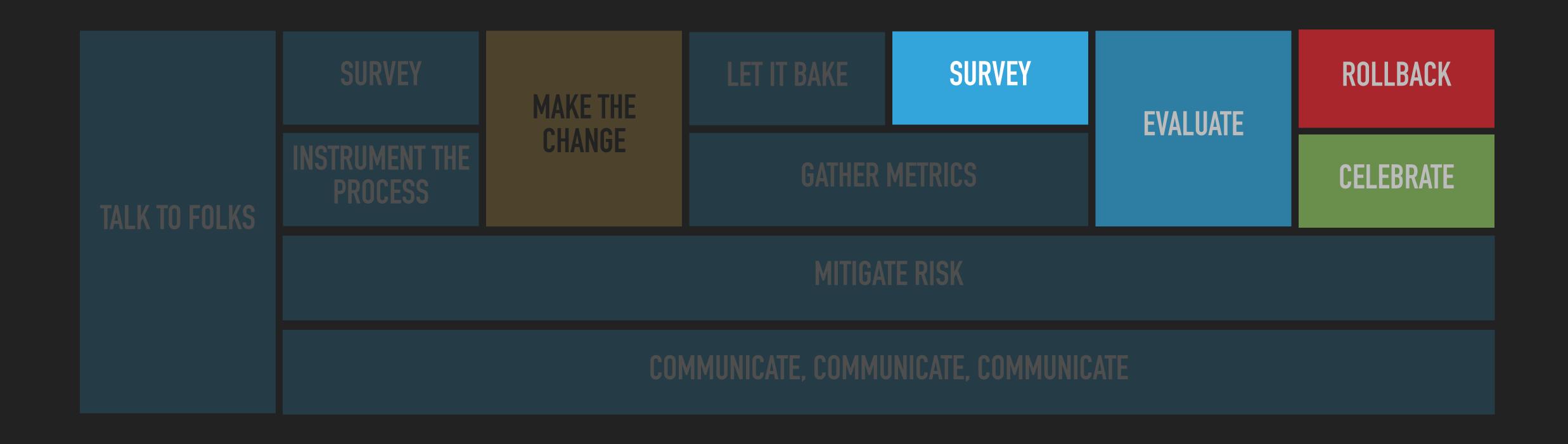


# THE PROCESS OF CHANGE



LET IT BAKE

**GATHER METRICS** 



# AFTER SWITCH TO WEEKLY RELEASES

	I/my team feel(s) pressure to "catch the release train" around string/code freeze.		I have clarity around when a change merged into the main branch will be available to external beta users.	I have clarity around when a change merged into the main branch will become available to all external users.	at which changes from main branch become available to dogfood	I am satisfied with the speed at which changes from main branch become available to external beta users.	I am satisfied with the speed at which changes from main branch become available to all external users.
2022Q1	3.50	3.53	2.88	3.57	3.57	3.57	3.14
2022Q2	2.83	3.95	3.28	3.73	3.67	3.67	3.83
Diff	-0.67	0.42	0.40	0.16	0.10	0.10	0.70

THIS USED TO BE A STRESSFUL REALITY, BUT THANKS TO OUR WEEKLY RELEASE SCHEDULE (AND THE MOVING OF STRING

A DEVELOPER

We should keep releasing weekly (as opposed to going back **=** I work mostly on 3.90 <u>Scale</u> Development 5 = Strongly Agree 4.38 **Product Management** 4.33 4 = AgreeAverage by Design discipline | Quality Engineering 3 = Neutral 3.67 2 = Disagree 5.00 **Program Management** 1 = Strongly Disagree 5.00 **Engineering Management** Average by Infrastructure 4.05 <u>Legend</u> Product Engineering 3.83 4.00 Other пр. почет очет 3.71 Android a cell to see Average by 4.04 comments **Platform** 4.45 Android|iOS

WITHOUT PROJECT GROUNDHOG AND WEEKLY RELEASES, I FELT THE RELEASES WERE TOO INFREQUENT AND WE WOULD WAIT OR RESORT TO HOT FIXES MORE OFTEN.

A DEVELOPER

A WEEK AND A HALF FEELS LIKE A LONG TIME.

**SURVEY** 

A DESIGNER

## AFTER SWITCH TO FASTER TRAIN

	I/my team feel(s) pressure to "catch the release train" around string/code freeze.	change merged into	I have clarity around when a change merged into the main branch will be available to external beta users.	change merged into the main branch will become	at which changes from main branch become available to dogfood	I am satisfied with the speed at which changes from main branch become available to external beta users.	I am satisfied with the speed at which changes from main branch become available to all external users.
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2022Q4	2.73	3.78	3.32	3.76	3.80	3.80	3.90
Diff	-0.10	-0.17	0.03	0.02	0.14	0.14	0.07

We should keep faster release trains (~5 days = instead of ~10). **=** I work mostly on **Scale** 3.74 Development 5 = 5 3.71 **Engineering Management** 4 = 4 3.83 Average by Product Management 3 = 3 discipline | Quality Engineering 3.75 2 = 2 2.00 **Program Management** 1 = 1 3.71 <u>Legend</u> **Product Engineering** Average by Infrastructure 3.89 Layer 2.00 3.65 Average by Android 3.80 Platform 3.71 **AndroidliOS** 3.71 Average

**SURVEY** 

I WOULD SAY THE PRESSURE IS LESS THAN WHAT IT WAS WITH LONGER TRAIN

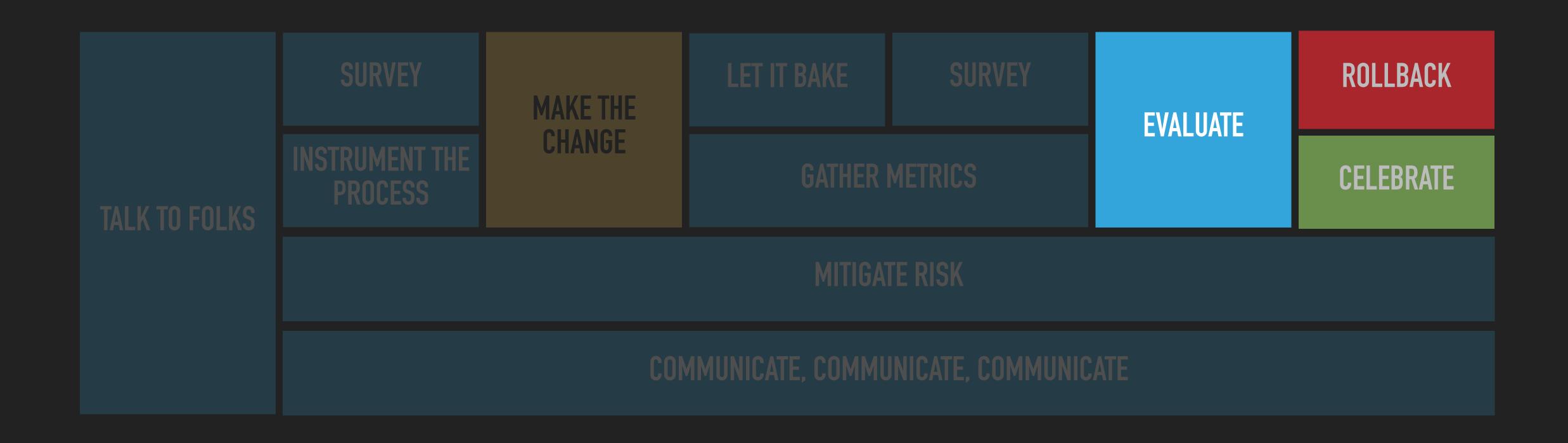
A DEVELOPER

AS LONG AS WE CONTINUE TO FEEL CONFIDENT ABOUT OUR ABILITY TO TEST THE APP BEFORE IT GOES OUT TO EXTERNAL CUSTOMERS, THIS PACE IS FANTASTIC!

A DEVELOPER

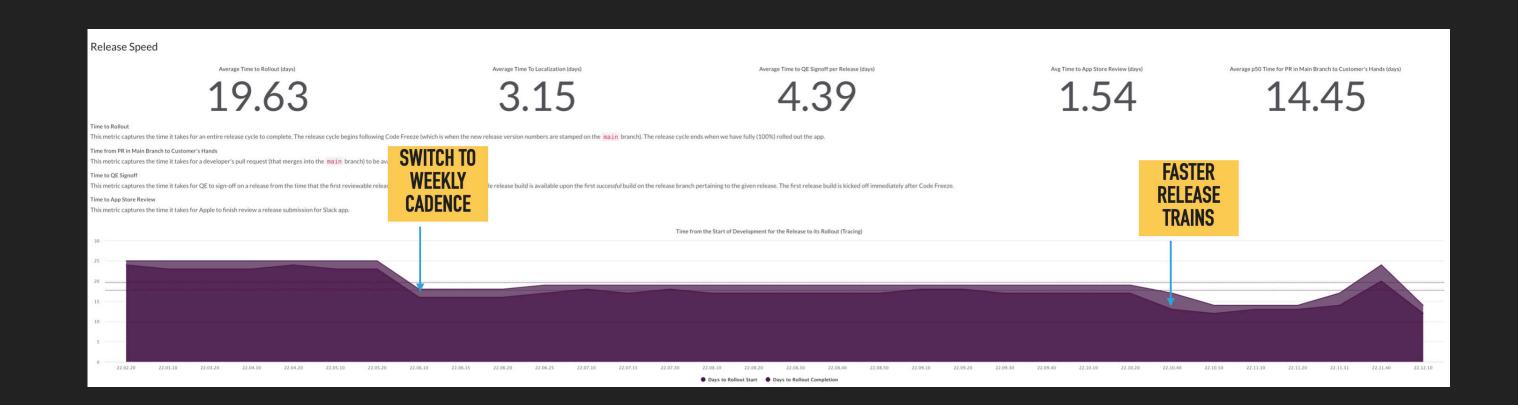
THE 5-DAY SCHEDULE WORKS
GREAT WHEN EVERYTHING GOES
SMOOTHLY. IN PRACTICE, THERE
ARE SEVERAL PAIN POINTS THAT
MAKE THE RELEASE PROCESS
HIGHER-RISK, AND LESSFLEXIBLE...

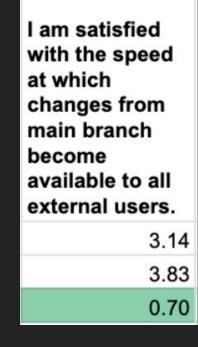
THE RELEASE MANAGER

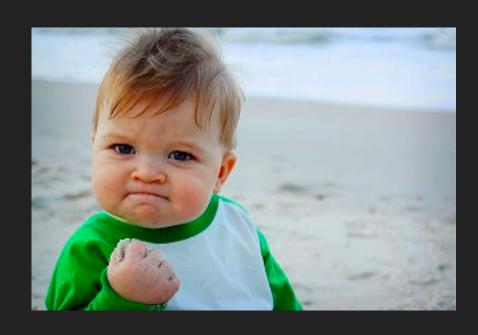


- Success Criteria
  - Increased velocity
  - Increased clarity
  - Reduced pressure
  - No regression in stability

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  - Increased clarity
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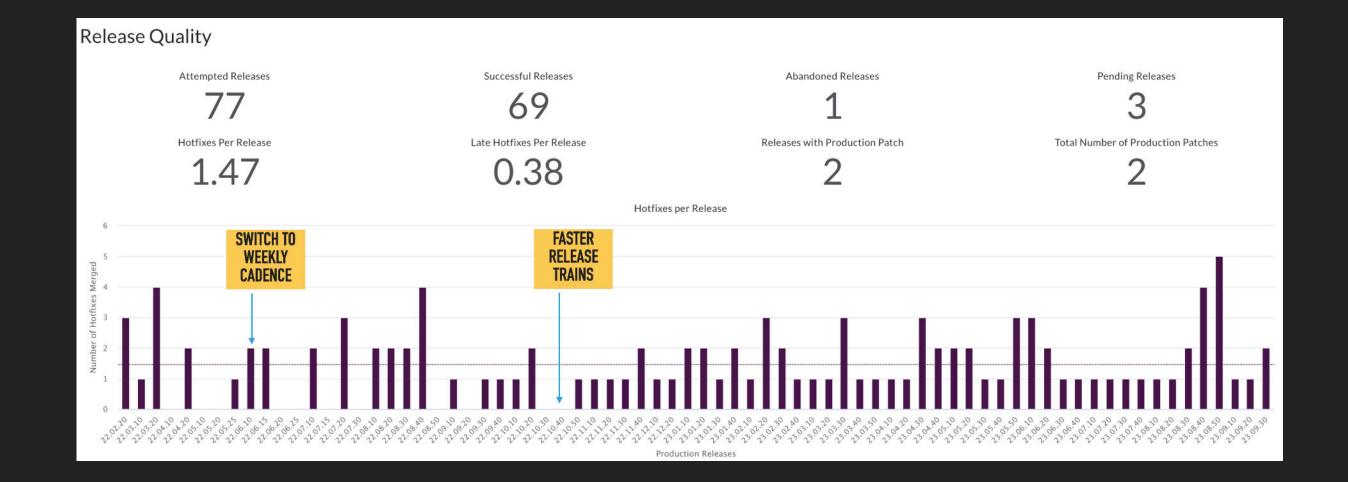
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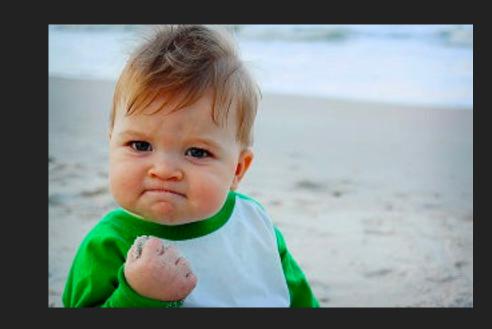
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- Success Criteria
  - Increased velocity
  - Increased clarity
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  - No regression in stability



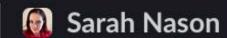






### Akshay Bakshi 10:41 AM

Positive: fix for keyboard issue gets out to customers super fast! (edited)



Oh, good. SP Please let me know if it's still broken in .25, once you update.

Weekly releases are amazing!

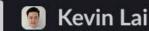
From a thread in # io





### Akshay Bakshi 79 1:34 PM

Already seeing faster iteration thanks to Groundhog 🙏



The tracing and AMI fixes went in last week so we can start rolling it out again this week on the latest version. Hurray to 1-week releases.

Posted in # proj-android-perf-channel-switch | Jun 21st, 2022 | View message













### Fred Hui 👶 9:46 PM

This comes at the right timing as we were able to benefit from the weekly release cadence for some of on GovSlack with respect to the GA date. If it was the 2 week cadence, we would have to ship some m features post GA!

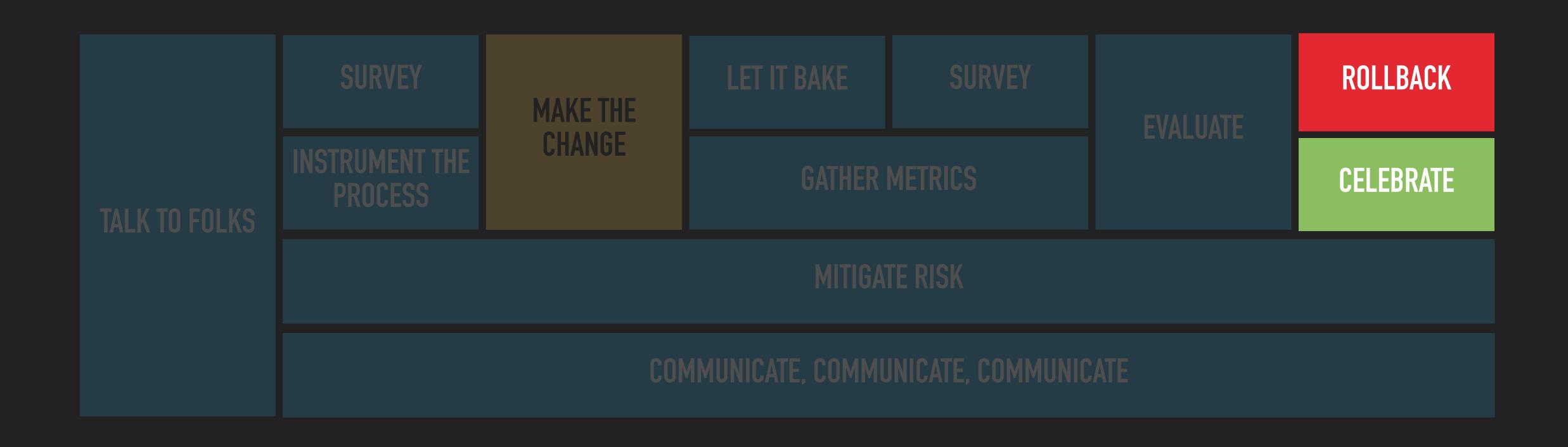
Overall faster iterations is always appreciated from both the Product and Engineering teams, especially in my pillar Expansion where we're very experiment focused with fast iterations being 🔑 .

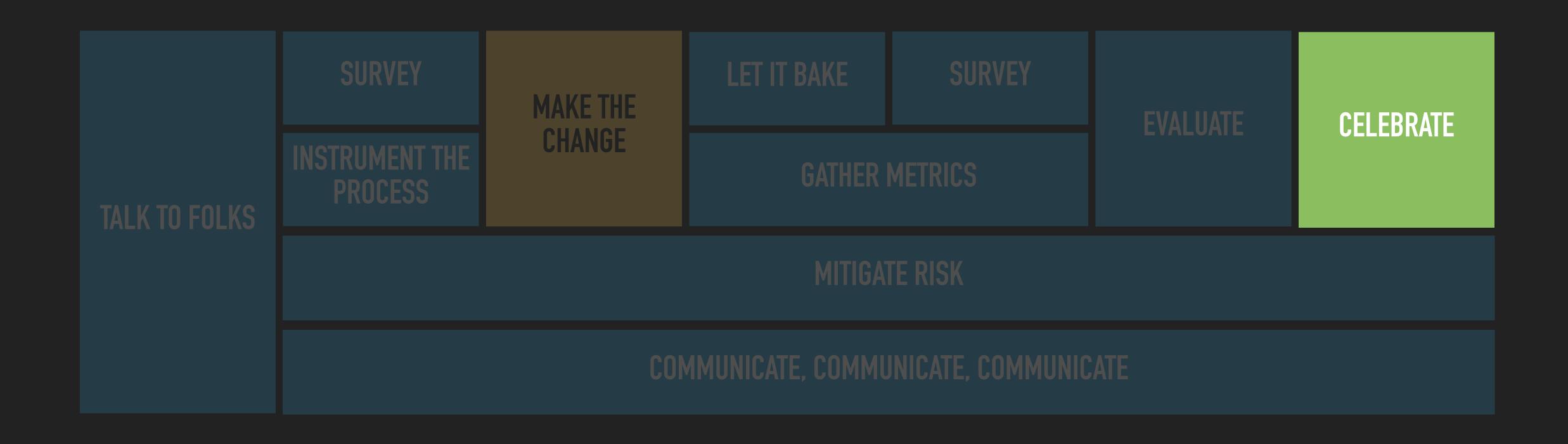












# FUTURE POSSIBILITIES

Software delivery performance metric	Elite	High	Medium	Low
Deployment frequency  For the primary application or service you work on, how often does your organization deploy code to production or release it to end users?	On-demand (multiple deploys per day)	Between once per week and once per month	Between once per month and once every 6 months	Fewer than once per six months
Lead time for changes  For the primary application or service you work on, vis your lead time for changes (i.e., how long does it to go from code committed to code successfully runing production)?  Time to restore service  For the primary application or service you work on, long does it generally take to restore service when a service incident or a defect that impacts users occure.g., unplanned outage or service impairment)?	Tono those	Between day and reek	Between one month and six months  Between one day and one week	More than six months
Change failure rate  For the primary application or service you work on, what percentage of changes to production or released to users result in degraded service (e.g., lead to service impairment or service outage) and subsequently require remediation (e.g., require a hotfix, rollback, fix forward, patch)?	0%-15%	16%-30%	16%-30%	16%-30%

# **OPPORTUNITIES**

- Iterate with "closer" audiences
  - Early prototypes to key stakeholders
  - Internal users
  - External beta users

- Shift Left
  - Reduce risk of hotfixes
  - Get to releasing a green build from main

Al

# FINAL THOUGHTS

# THE END



- Change triggers fear
- Fear is the mind killer"
- It's easy to get into a comfort zone
- With the right approach we can reach a new level of productivity

Which, if you have read book 4 of the dune series, is something that we probably don't want to do. But that philosophical talk for next year. If AI hasn't become sentient and taken over by then. See you all in the future.