



ASPIEGEL

How we built out our SRE Department, to support the world's 3rd
biggest mobile marketplace

Sinéad O'Reilly (SRE Lead – Aspiegel)



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Agenda

Quick Introduction



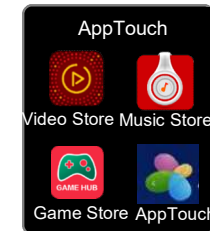
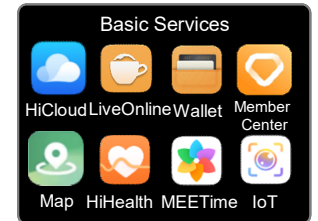
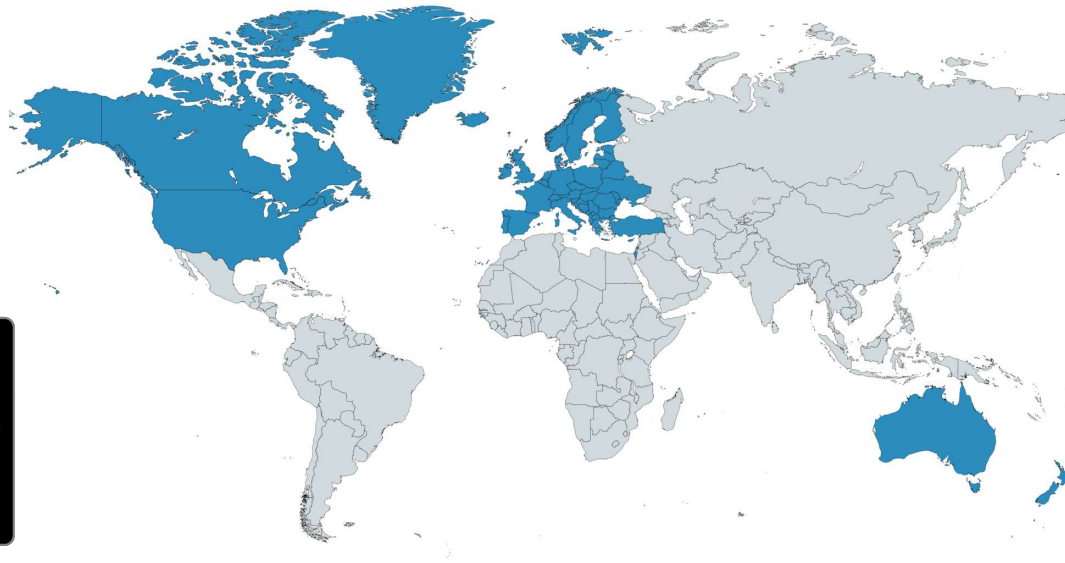
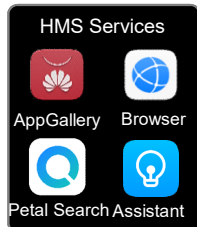
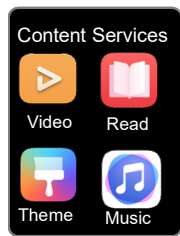
Remote Working With Covid



Scaling an SRE Team

Who We Are

Aspiegel SE are a digital services provider, based in Dublin, and with branches around Europe. Our role is to manage and operate the HMS for users in Europe, North America, Australia, and a number of other countries. This means that if end-users in these countries use the HMS Apps or Services, it all comes through our systems!



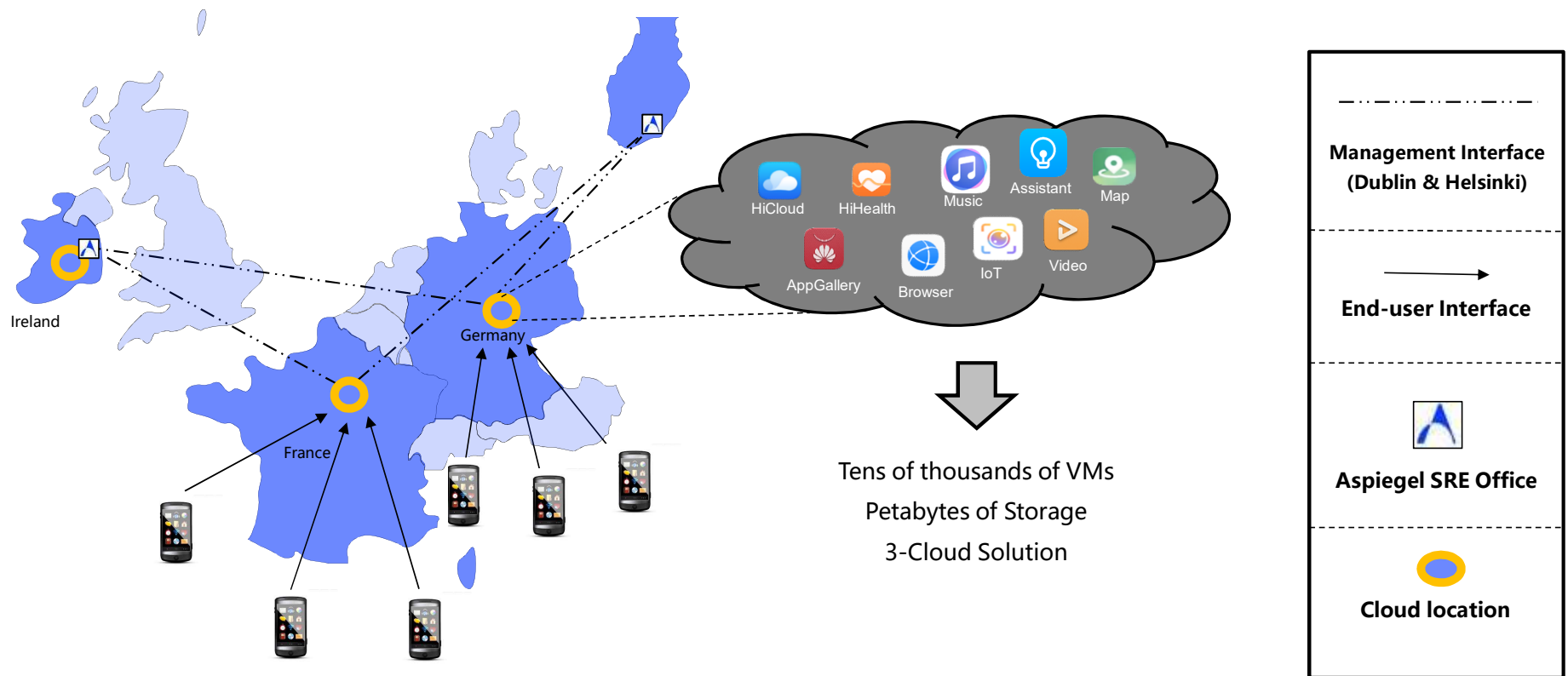
100+ Million Users

60+ Countries Covered

100+ Services Managed

Our Setup

We make use of public cloud in Germany, France and Dublin to host the services, We deploy in a 1+1 configuration, on multi AZs for redundancy

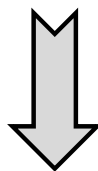


What we will Discuss

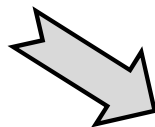
March of last year saw some new challenges come our way



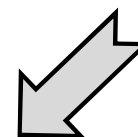
A large increase in projected
workload for our team



A transition away from using a
Managed Services SRE team



1. Rapidly build up our SRE team size
2. Figure out how to work from home



Offices Closing, and remote
working become the norm



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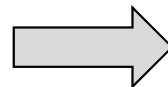
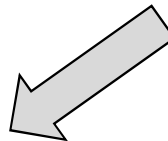
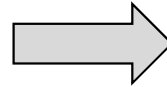
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Scaling an SRE Team

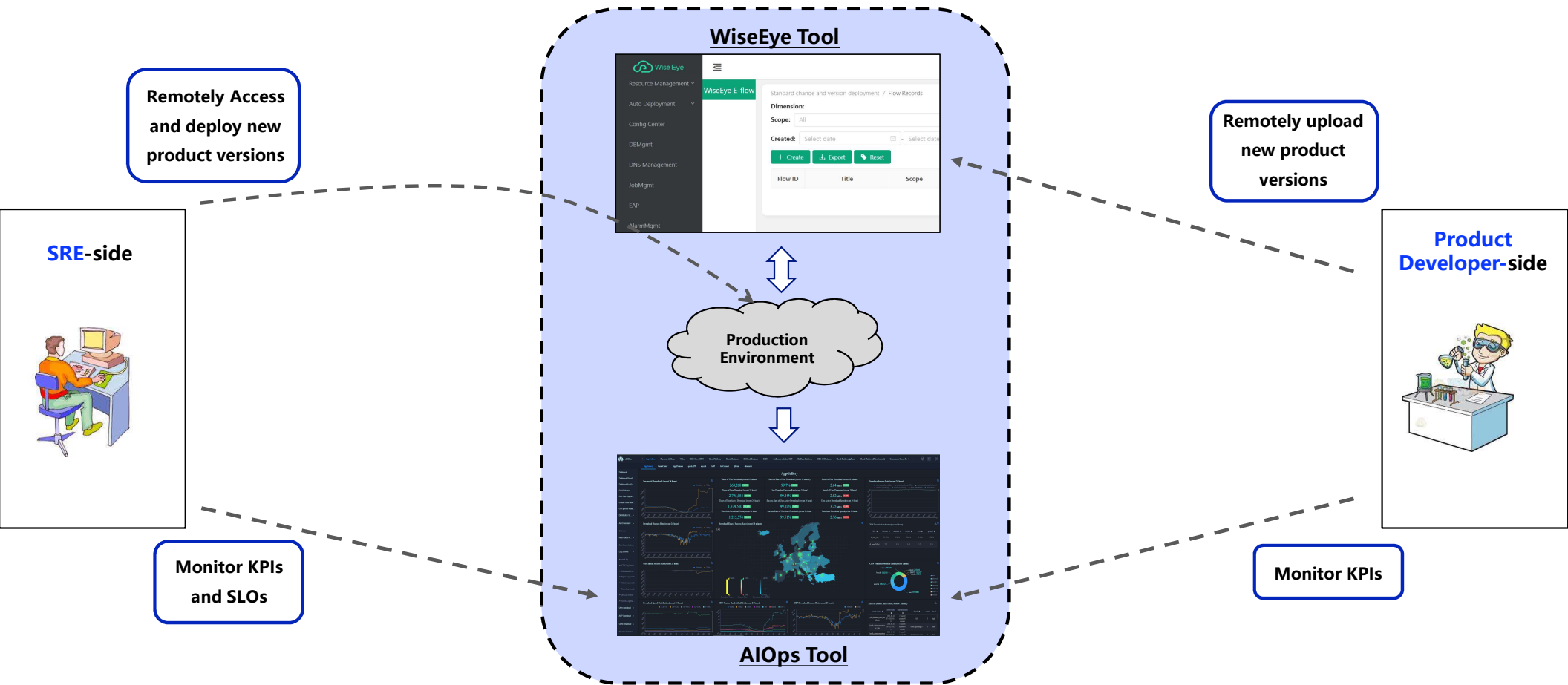
Friday 13th March 2020 – Ireland “Goes Home”

With a blanket "work from home" call for the country, our engineers needs changed during the year...



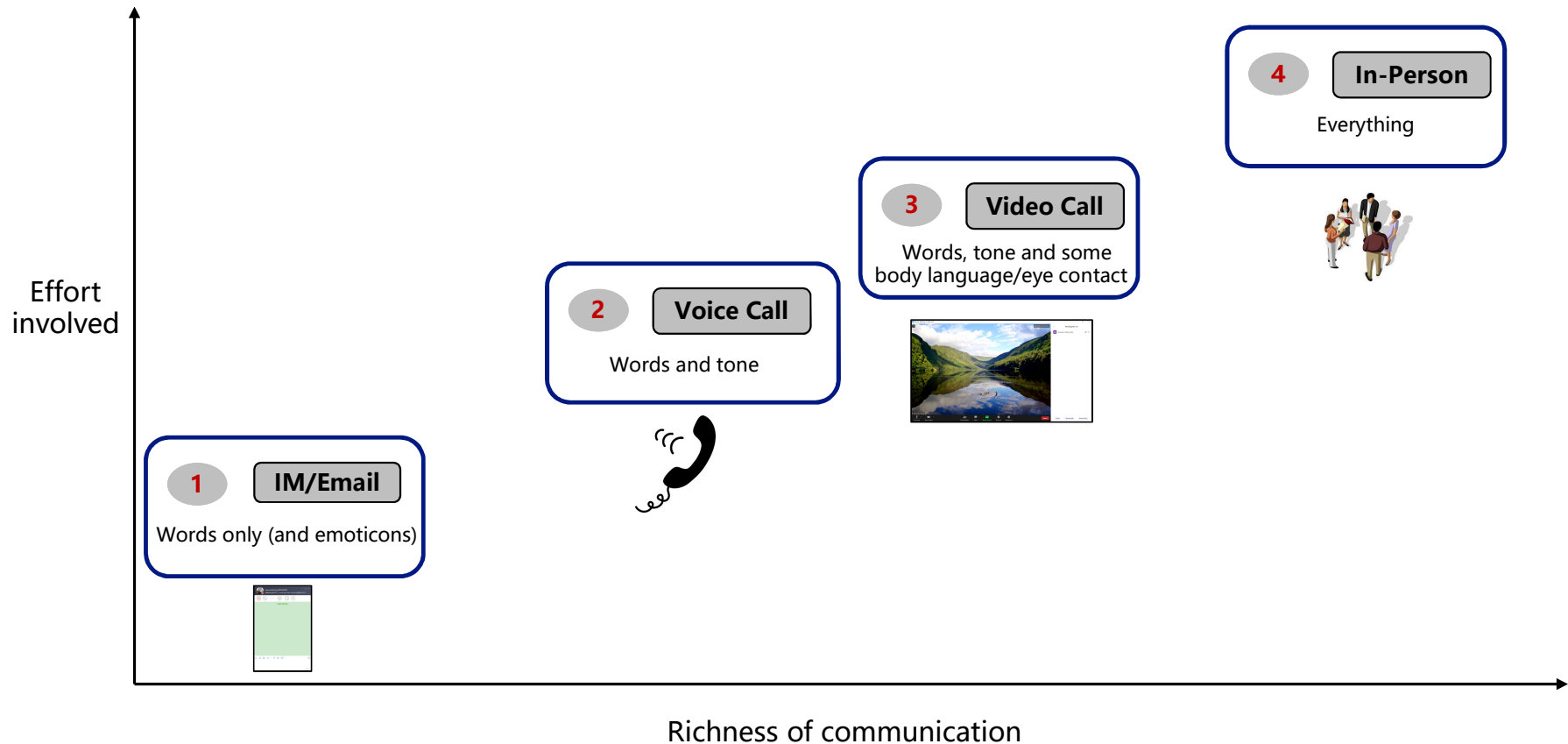
Remote Tooling for the Remote SRE

Deploy / Monitor / Optimise / Resource Management / Communication



Choosing how to Communicate

Full Communication = words + tone + body language





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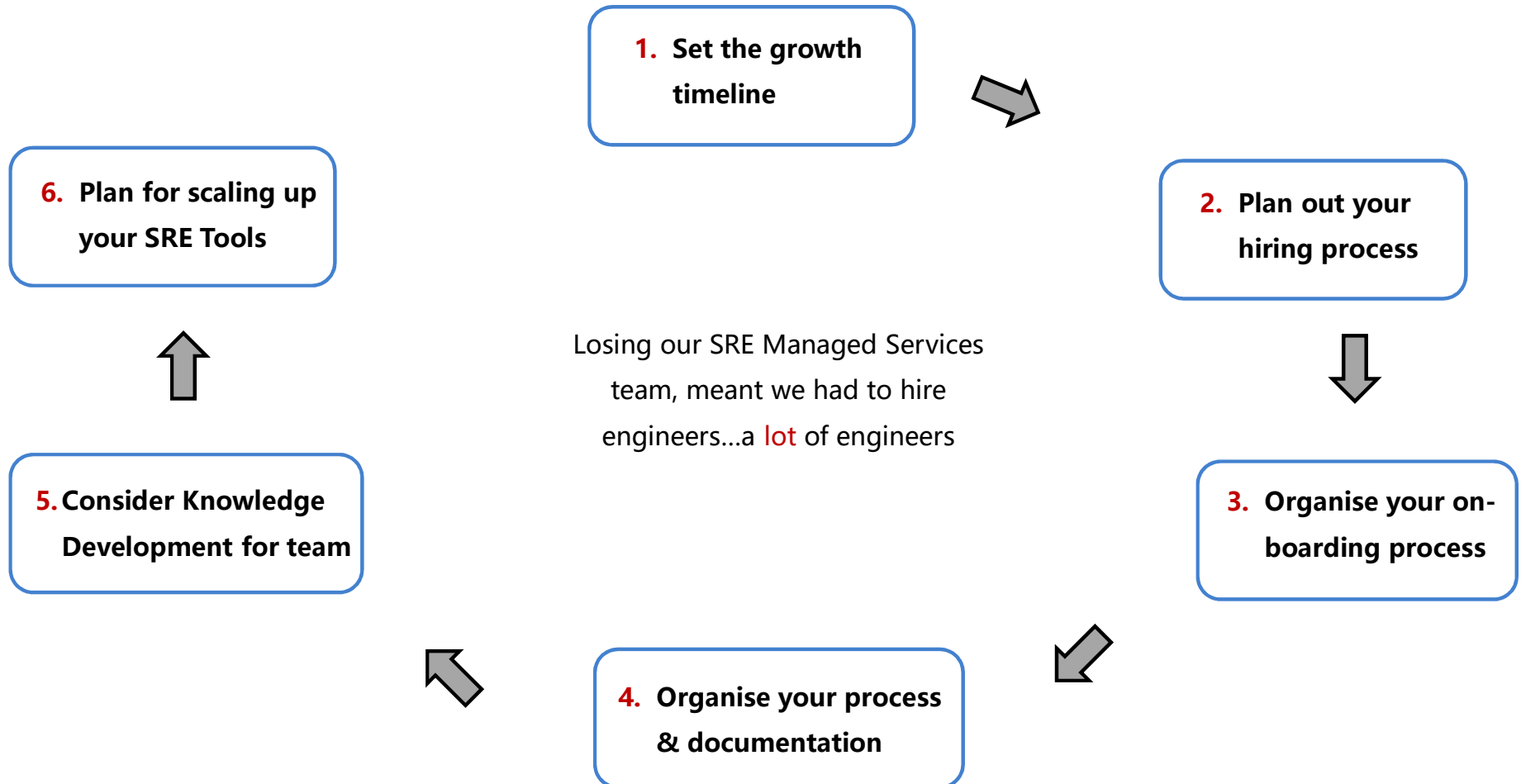


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Scaling an SRE Team

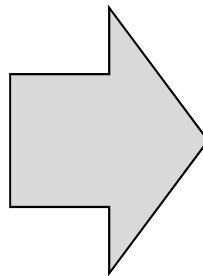
How to Grow the Team?



Differences of a Small & Large SRE Dept



- Process is often in place, but a lot runs on **tribal knowledge**
- "Everyone knows" who to go to, and how things get done
- Engineers do a **variety** of different tasks, to get everything covered



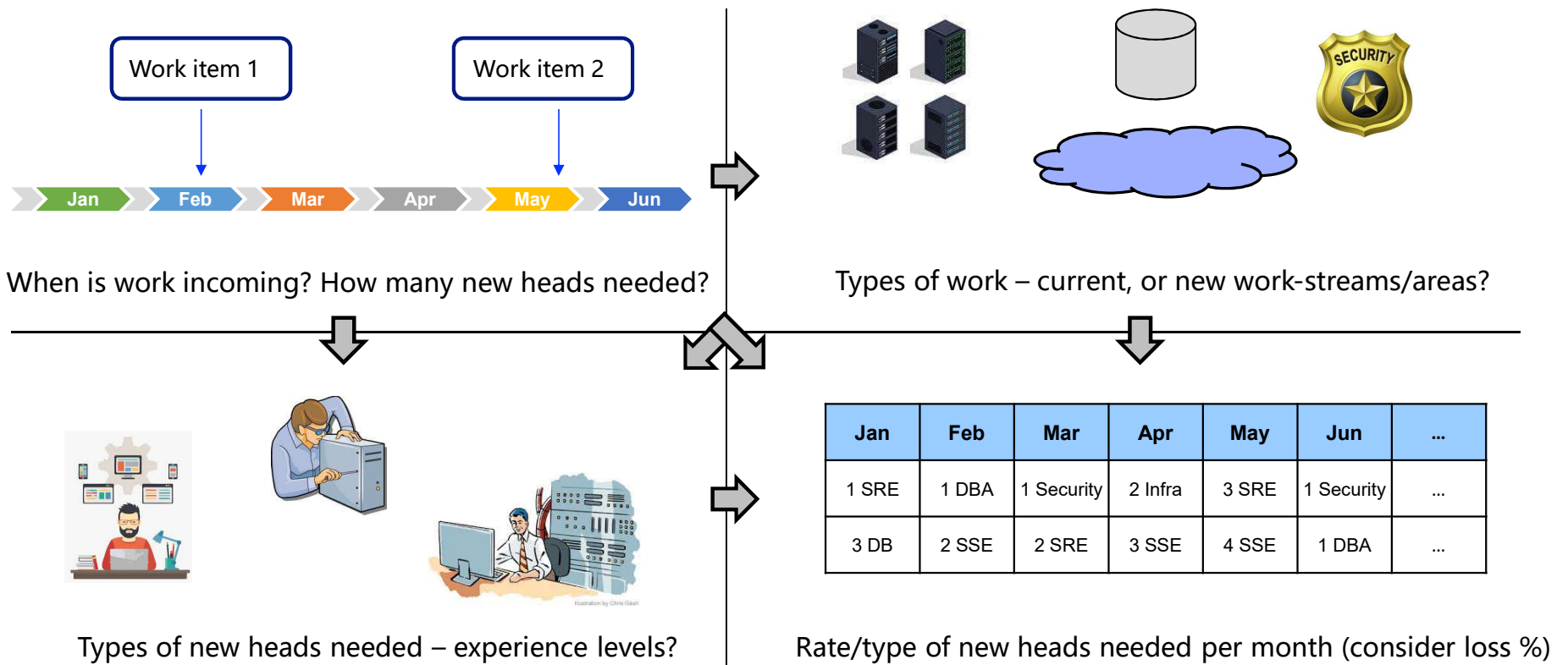
- Tribal knowledge is still present, but not to the same extent
- **Process, procedures** and **documentation** become far more important - essential
- Engineers do more **specific** tasks, as there is more people coverage

Note: Process needs to be efficient, and realistic, or it will not be adopted.

It's crucial to give engineers a way to challenge process, as this is where most improvements come from

Planning for Growth

If you are growing your team, you need to start by planning (as much as possible!), what your growth looks like over the year



Hiring SREs in Bulk

Who will source the candidates? Recruiter, HR, Engineers?

Who will coordinate / administer / track the process?

Decision Area	Output
The job title and content	Job Description
The target candidate profile	Years/areas of experience
The number of interview stages	# Stages
The interview panel for each stage	List of names
The key competencies	Three key areas

Who makes the final decision?

What is the total expected time-to-hire, per engineer?

On-boarding Remotely, and at Scale

When onboarding one person, questions can be easily dealt with. This is not the case with many people!

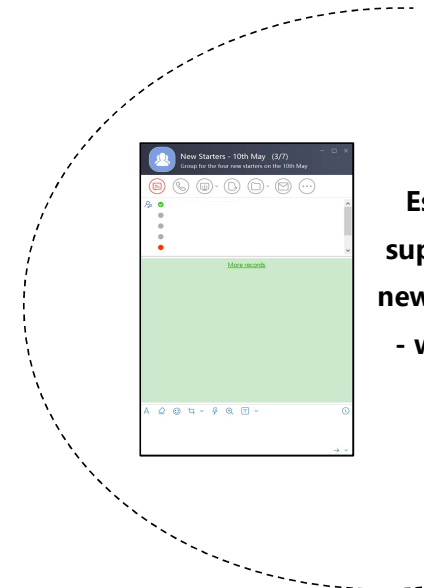


Reduce queries by having a defined, and accessible on-boarding plan. Specify:

- ❑ Actions
- ❑ Learning points
- ❑ Deliverables

On a week-by-week basis, (for at least the first month). Automate the process!

Timeline	Goals	POC	Details	Success metric
Week 1	<ul style="list-style-type: none">Settle down: get your desk, laptop and any other office equipmentMeet the teamSort out all the formalities (badge, payroll, revenue, pension, insurance - if applicable)Request test phone and sim, update corporate profile with contact detailsGet a mentor	Manager	Week 1 wiki page	Be able to demonstrate satisfactory Mandatory Exam scores on all of the required tests

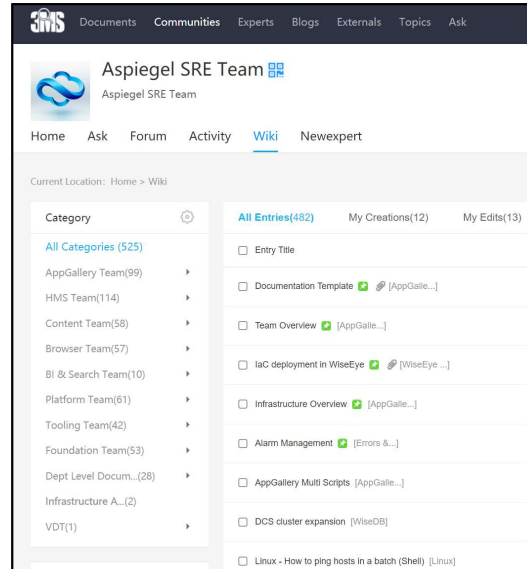


Establish an IM support group for new starter queries - whoever is free helps!

The Next Stage – Knowledge Access

For the 2-6 month stage it is important to assist knowledge development, with [accessible documentation](#) on work tasks

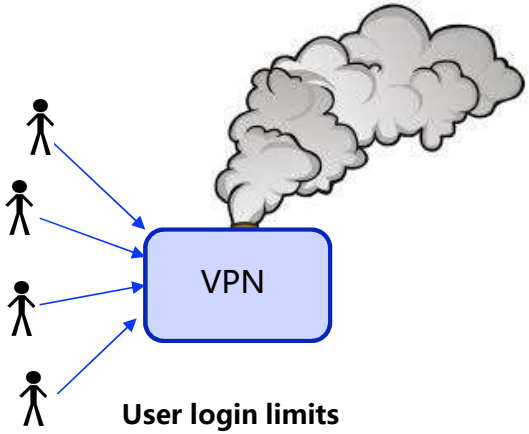
Implementing a good **Knowledge Base** is essential



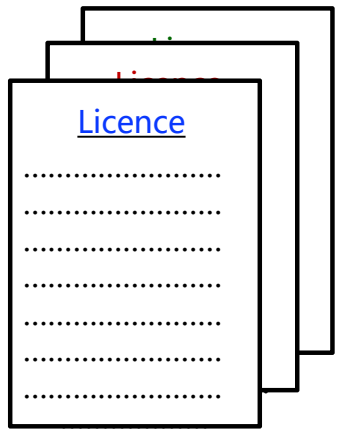
Remember – your new starters of today, are your KB authors of tomorrow!

Scaling up SRE Tooling

What happens, when 4 or 5 times as many engineers as normal use your tools?



Attract attention from IT



User tool licensing issues

EU WiseTool Mainten... (105/149)

More records

Aspiegel - OpenVPN Us... (111/156)

VPN will not accept my password

AIOps&SRE[EU] Group (70/97)

The numbers for my service aren't populating

More records

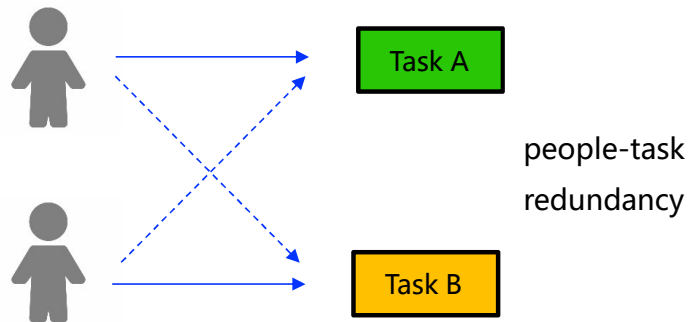
More records

cannot login - can anyone help?

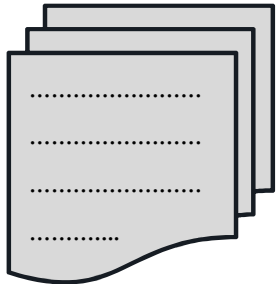
Create Support Channels and FAQs for widely-used tools!

Engineers Moving on

100% retention is sadly impossible - apply SRE principles, to mitigate against the risk of losing knowledge



Turnover percentage should be modeled
for the year, and fed back into your
[growth plan](#)



Full documentation
in place, for each
piece of work

So Where Are we Now?



Still hiring (Come join us!)



Fairly settled into our roles



People are physically less tired, but mentally more tired – it has been a long year for everyone



The majority of our team has never been in the office
- we're looking forward to seeing each other 😊

Thank you for your time!

Further queries: sinead.o.reilly@huawei.com



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Together, We'll be Better