



**GitHub, the future of
Software**

Agenda	GitHub, the future of software
Richard Bellet	Introduction to GitHub
Dhiraj Gyani	GitHub for Education and Campus program
Richard Bellet and William Shokkele	How Howest – University of applied science in Bruges, Belgium use GitHub education program
Dhiraj Gyani	Q & A

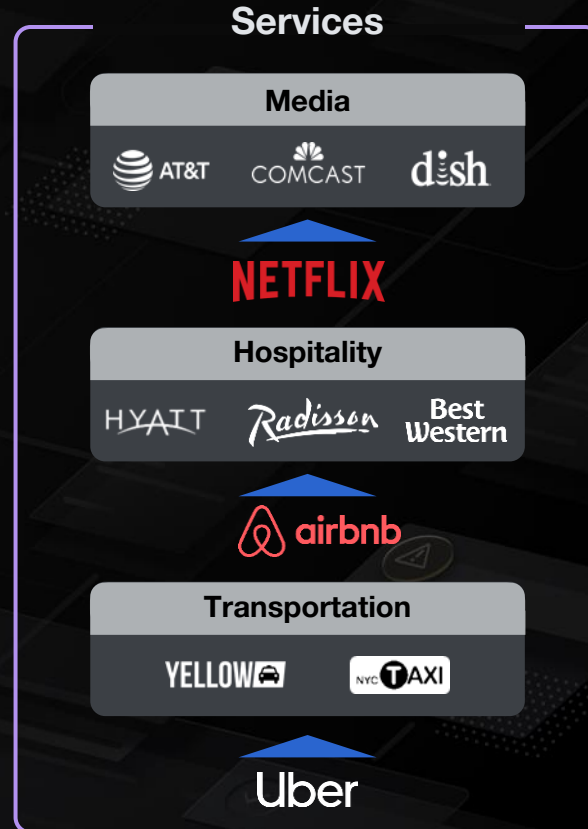
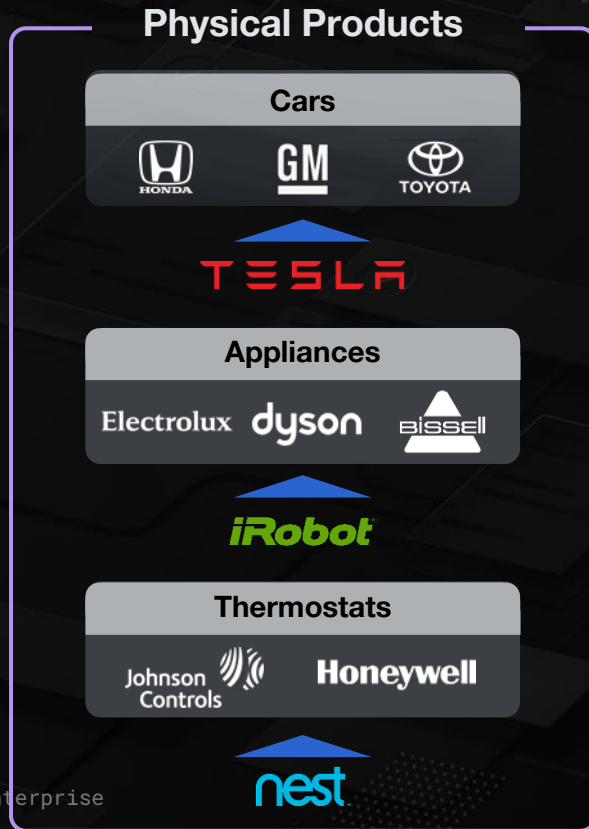


Developer first, cloud native

Richard Bellet
Director Corporate Sales EMEA

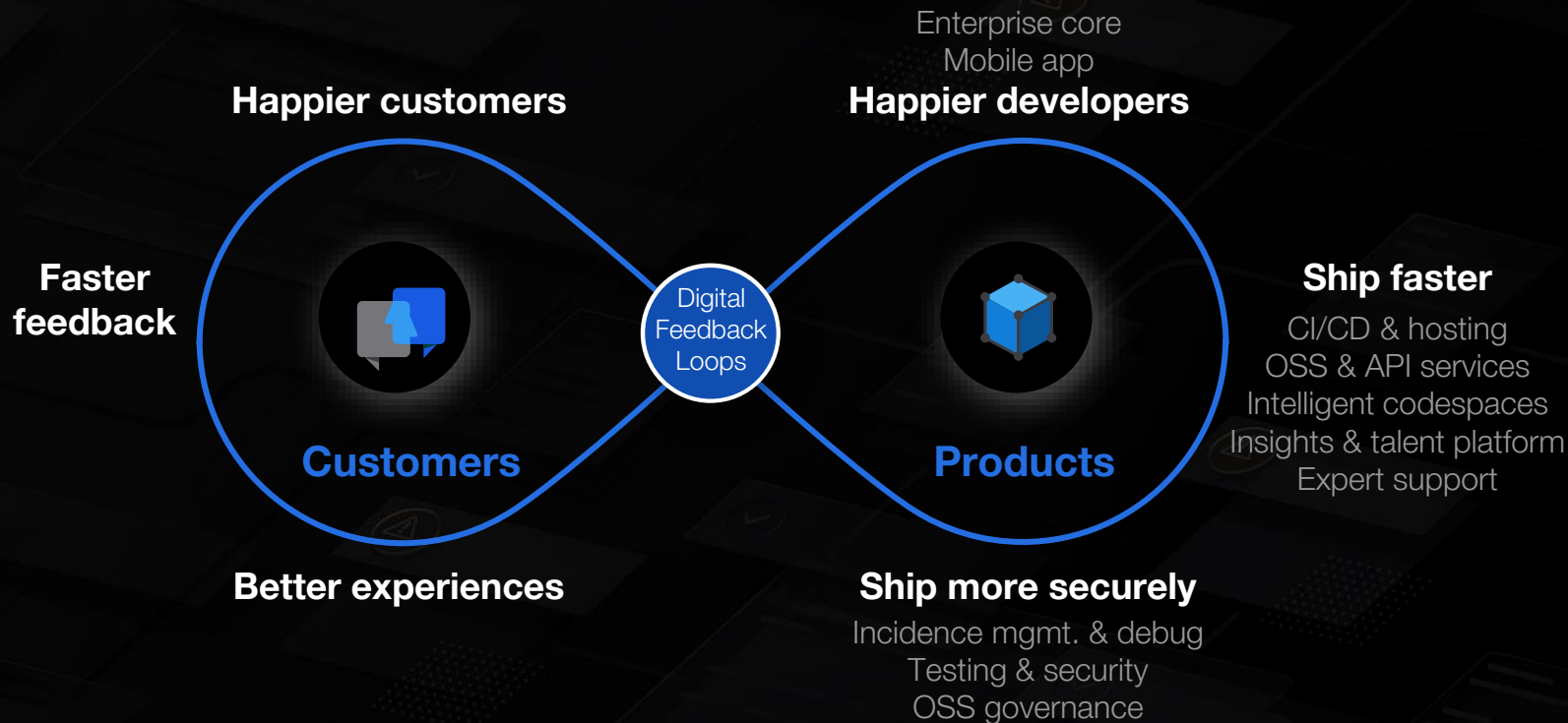


Disruptors lead with customer experiences



Our Vision

We empower your teams to securely & rapidly innovate on software and customer experiences that drive business results



Simple goal



Accelerate software
delivery

Multiple areas of focus



Developer
collaboration



Workflow
automation



Security across
supply chain and
applications



Scalability,
availability,
management



GitHub is the largest developer platform on Earth

56M+

Developers

3M+

Organizations

1,000s

Top open source
communities

1B+

Contributions
per year

100M+

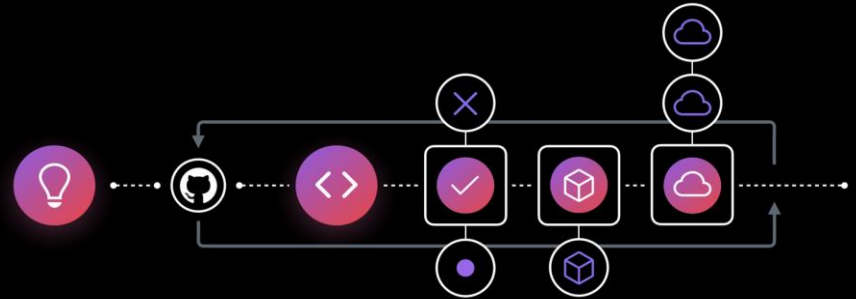
Private and public
repositories



Focus on providing a
developer experience that
enables them to do their
best work.



- Collaborative, automated **workflows**
- Developer focused **security and compliance**
- A fully integrated platform **from idea-to-production**



GitHub is the platform for rapid innovation



Security &
Compliance



Code-to-cloud
DevOps



Team
Collaboration



Developer
Talent



Community-powered Developer Platform





Nat Friedman @natfriedman · Feb 19



Honored that @NASA is using GitHub, Actions, and CodeQL for the Mars drone flight software: github.com/nasa/fprime

If anyone working on this needs GitHub support, please feel free to DM me directly!



View on GitHub



Flight Software & Embedded Systems Framework

F' is a software framework for rapid development and deployment of embedded systems and spaceflight applications. Originally developed at NASA's Jet Propulsion Laboratory, F' is open source software that has been successfully deployed for several space applications. It has been used for, but is not limited to, CubeSats, SmallSats, instruments, and deployables.

F' has the following features:

- Component architecture with well-defined interfaces
- C++ framework providing core capabilities like queues, threads, and operating-system abstraction
- Tools for designing systems and automatically generating code from systems design
- A standard library of flight-worthy components
- Testing tools for unit and system-level testing

F' Resources

Features

Features

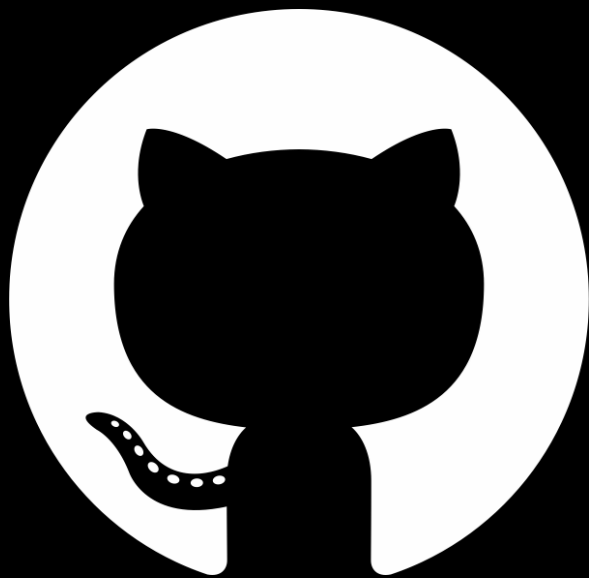


GitHub Enterprise unlimited

Unlimited Access to GitHub Enterprise (Cloud + Server)

Dedicated Account Management, Solutions Engineering, and Support
Available on ESS for \$50,000 USD per year



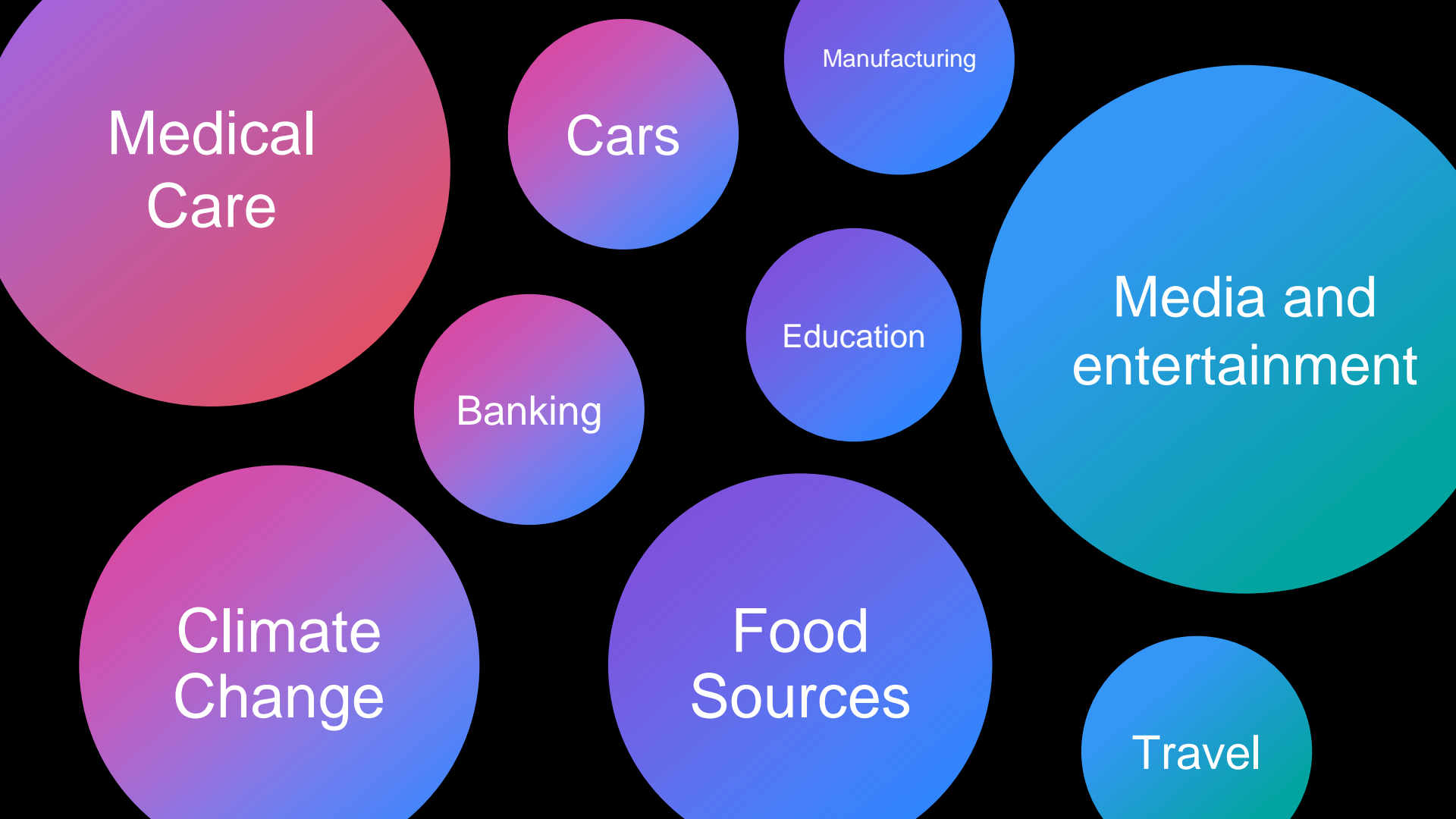




Dhiraj Gyani
Director : Education Engagements
GitHub

**Are you ready for
the real world?**





Medical
Care

Cars

Manufacturing

Media and
entertainment

Education

Banking

Climate
Change

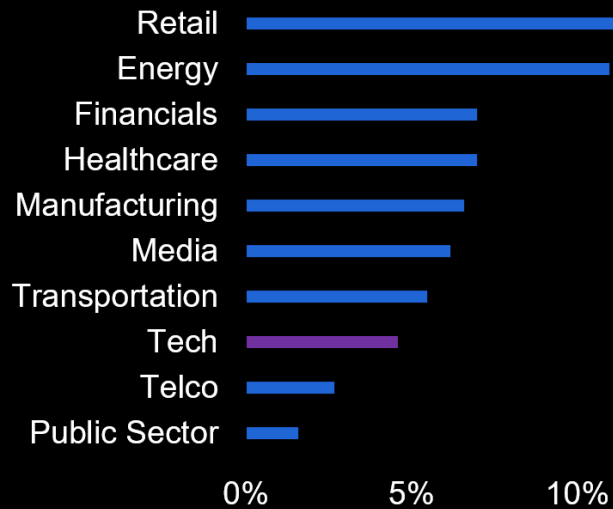
Food
Sources

Travel

Developer demand is growing even beyond tech

Digital transformation is fueling faster developer growth outside of tech

% developer growth by industry



**By 2030, demand
for skilled
workers will
outstrip supply.**

85.2M

global talent shortage

\$8.5 trillion

unrealized annual revenue
loss due to talent shortage

97M new jobs

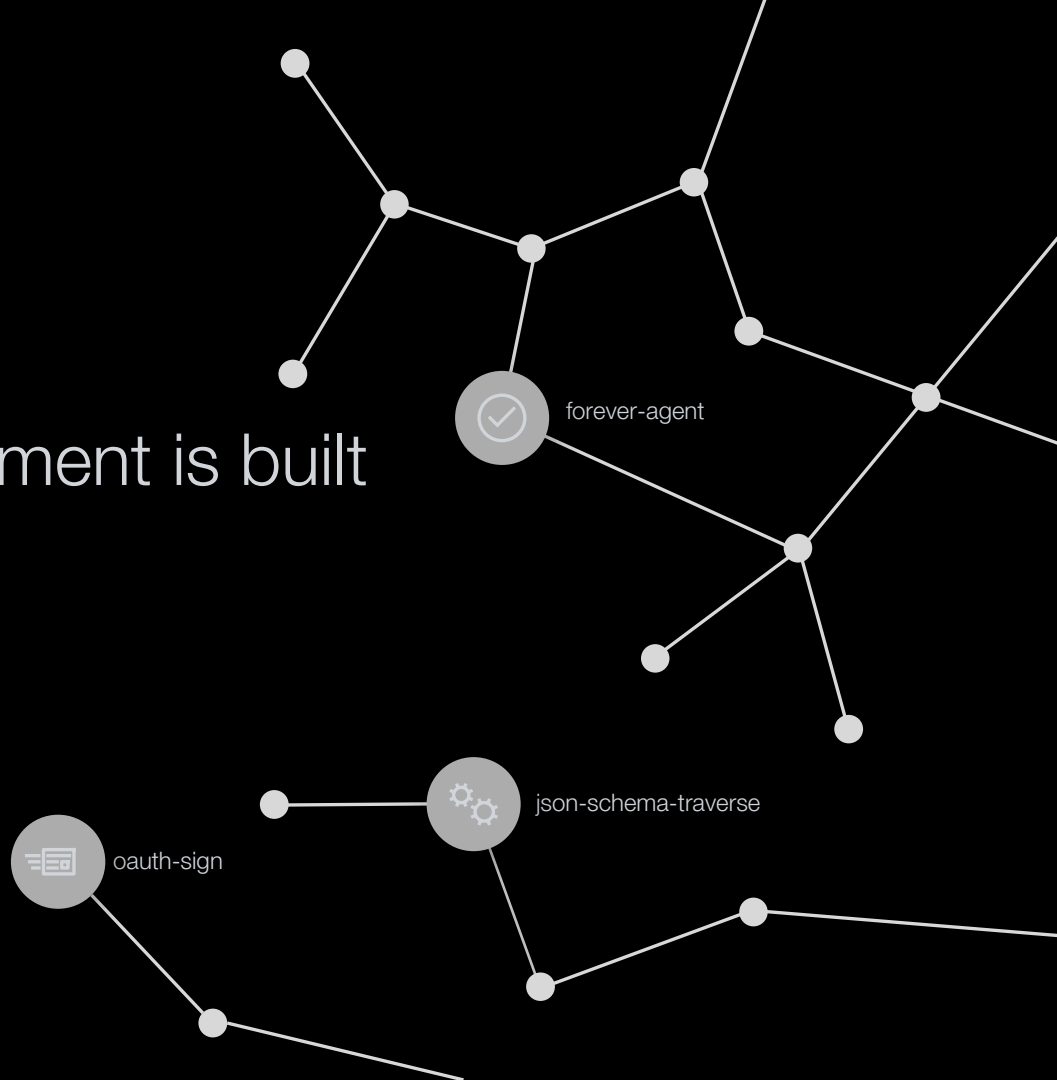
85M jobs will be replaced
with opportunity for new
ones by 2025



Modern software development is built on open source

80-90%
open source in
new applications

15K+
OSS packages
released daily



Innovating, Connecting and Solutioning with **GitHub** Education



GitHub Education

6 programs that serve teachers, students and Institutes

Served 2.5M students since 2012; Poised to touch 10M students by 2024

Real-world tools, engaged students

GitHub Education helps students, teachers, and schools access the tools and events they need to shape the next generation of software development.



GitHub Student Developer Pack

The best developer tools, free for students



GitHub Campus Experts

Training to enrich the technology community at your school



GitHub Teacher Toolbox

The best developer tools for teaching, free for academic use



GitHub Campus Advisors

Teacher training to master Git and GitHub



GitHub Classroom

The best way for teachers to distribute and collect coursework on GitHub



GitHub Campus Program

GitHub for your whole school, with everything you need to make it great



GitHub Campus Program

- Rolling GitHub in your school enabling you to use enterprise grade professional's tools
- Free access to GitHub Enterprise Server and GitHub Enterprise Cloud for every department
- GitHub Classroom & Teacher training to master Git and GitHub with our Campus Advisors program
- Automated access to premium GitHub Education features, like the GitHub Student Developer Pack
- GitHub Education-specific swag & Events



GitHub Enterprise

For Administrators

- Unlimited access to both on premise and cloud-hosted versions of the platform
- Compliant SAML/LDAP-enabled environments
- Standardized infrastructure across the university

For Educators

- Automate their course workflows and integrate real-world workflows
- Predicts learning outcomes such as project management, belonging in the field, and preparation for future work



For Students

- Access to the most popular developer platform on the market
- Hands-on experience with real-world tools in open & inner source environments
- Gain marketable skills to be better prepared for the professional world

For Researchers

- Access to some of the most powerful development lifecycle tooling, all in one platform
- Direct connection to the open source ecosystem for an external collaboration
- Simplifies cross-department collaboration and knowledge sharing




**GitHub makes you
real-world ready!**





Conversation with William Shokkelé Howest – University of Applied Sciences





howest

**DISCOVER
YOUR TALENTS**