



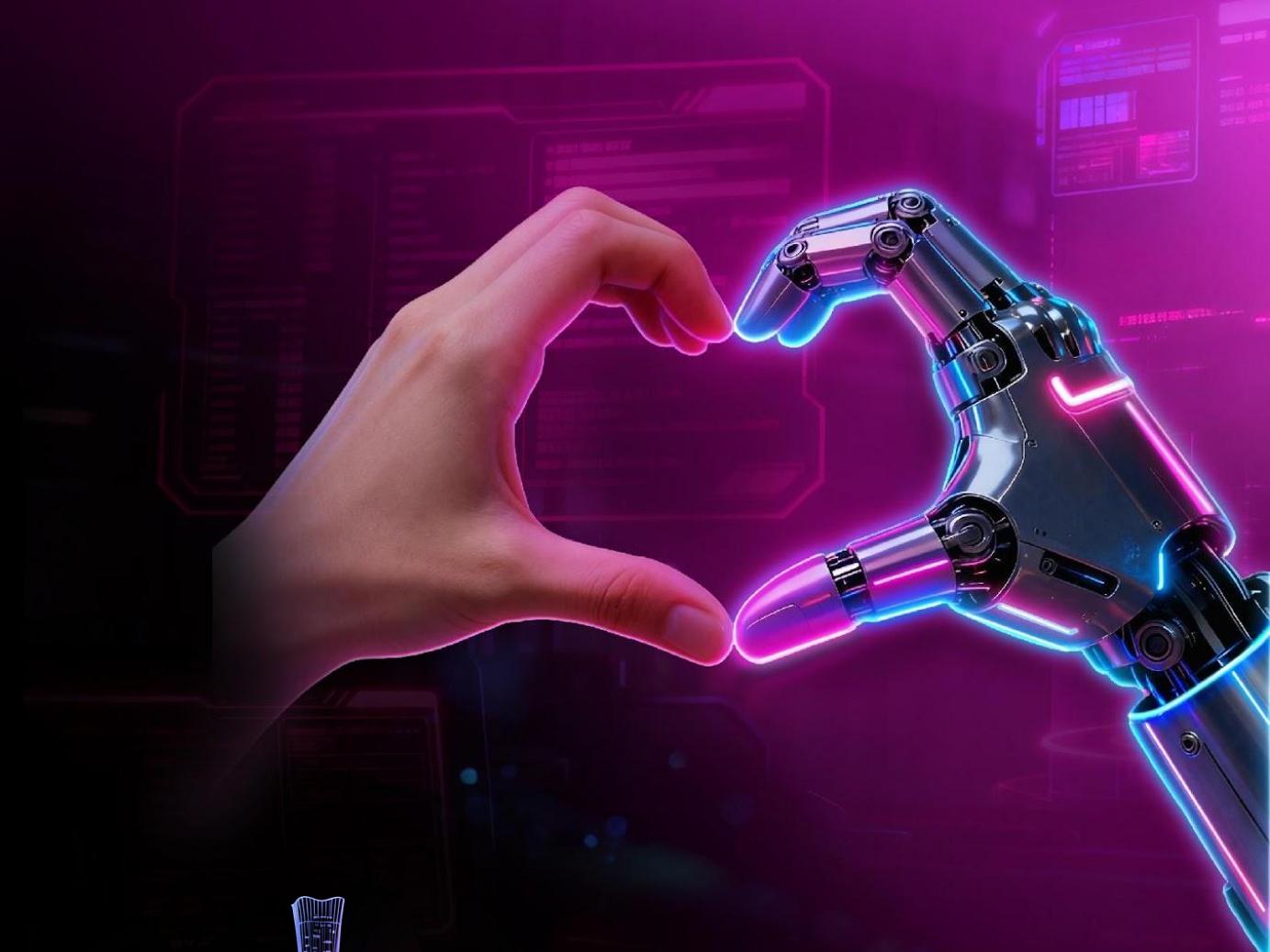
COSCon'25

第十届中国开源年会

众智开源 | Open Source, Open Intelligence

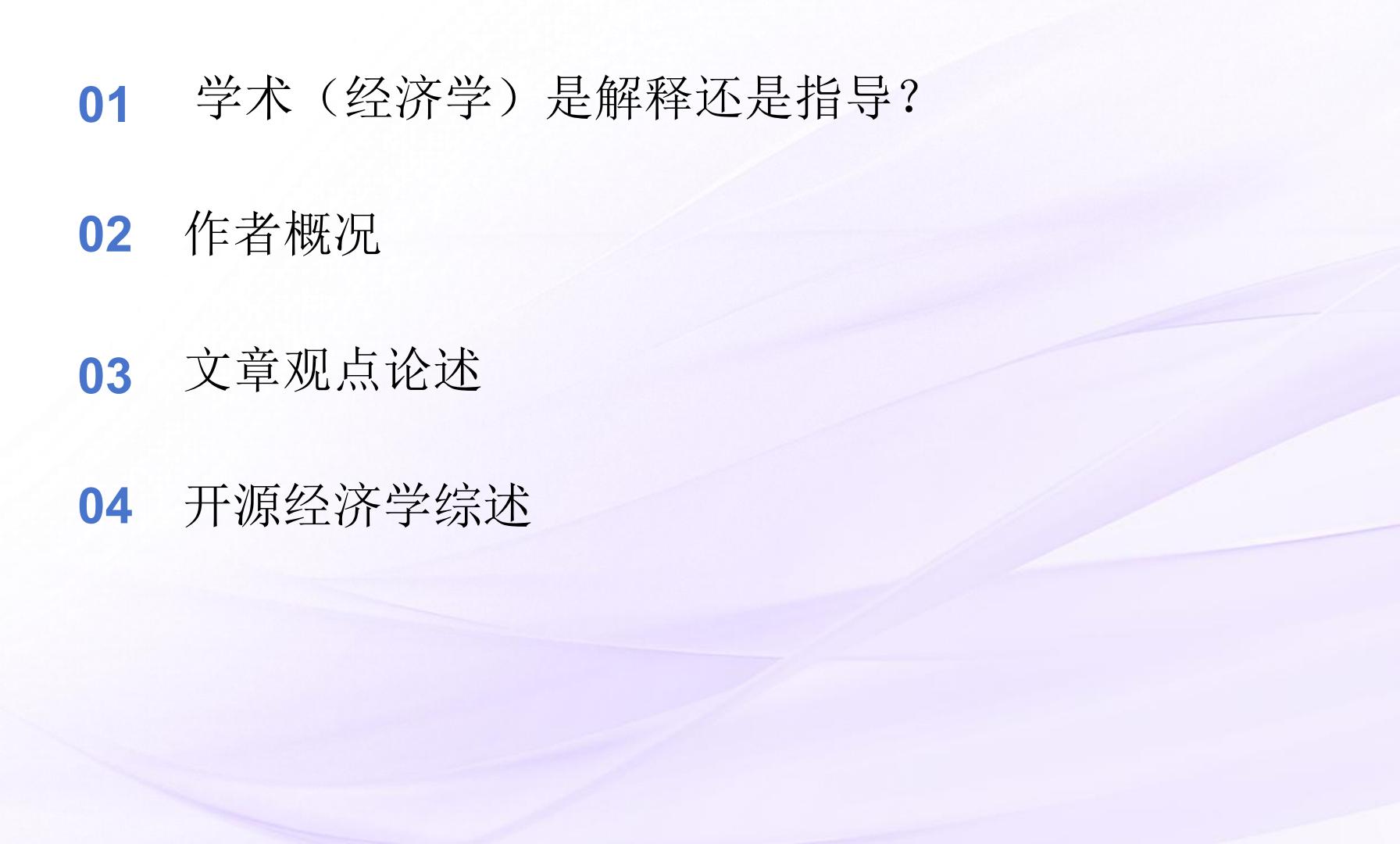
开源的经济学

「开源之道」适兜



CONTENTS

目录

- 
- 01 学术（经济学）是解释还是指导？**
 - 02 作者概况**
 - 03 文章观点论述**
 - 04 开源经济学综述**

The Hidden Trillion-Dollar Engine: Quantifying the Value of Open Source Software

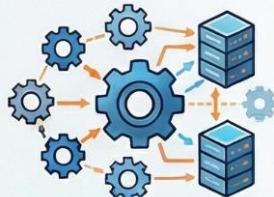


TWO WAYS TO
MEASURE VALUE



Supply-Side Value

The one-time cost to recreate all widely-used OSS from scratch.



Demand-Side Value

The total cost if every firm had to recreate the OSS they currently use.

THE STAGGERING ECONOMIC IMPACT

**\$4.15
BILLION**

The estimated global supply-side cost to replace widely-used OSS.

**\$8.8
TRILLION**

Estimated demand-side value based on global firm usage.

3.5x

MORE SOFTWARE SPENDING

What firms would spend on software if OSS did not exist.

WHO CREATES
THIS VALUE?



MOTIVATION: THE SIGNALING INCENTIVE

Programmers are driven by career advancement and peer recognition, not just altruism.



5%

OF DEVELOPERS

Create over 96% of the demand-side value for widely-used OSS.

《开源经济学》作者Mirko BoHm 概况

- Linux基金会欧洲 Community 发展总监 
- 丰富的开源项目亲力亲为经验 
- <https://www.creative-destruction.org/> 
- OIN、KDE 
- 代表作：参编OFE的《开源软硬件影响》 
- 在柏林工业大学创新经济学系教授数字社会中的开源和知识产权课程。



文章讲了什么?

- 协作生产软件本身就是经济 
- 节省成本与产品加速上市 
- 也是一种全新的组织创新 
- 开源许可和合规是开源和法律的内在关系(入口) 
- 软件的帕累托法则:80%都是使用的开源代码 
- Contributor 和 Community 关系 governance 
- 基于全球的上下游网络

15 Economics of Open Source

Mirko Böhm

15.1 The Economics of Open Source	299	15.9.1 The global upstream/downstream network	313
15.2 Introduction: Open Source, Law, Politics, and Economics	299	15.10 Open Source-Related Products and Service	314
15.3 Why is Free Software Free?	301	15.11 The Benefits of Open Source in a Business Context	317
15.4 Software Freedom and Open Collaboration	303	15.12 Differentiating in the Eyes of the Consumer	319
15.4.1 Methodologies	304	15.13 The Role of the Volunteer Community	320
15.5 Differentiate or Collaborate!	305	15.14 Competition in the Wider Open Source Community	322
15.6 Joint Stewardship and Governance	307	15.15 Compliance, Social and Market Transactions, and Zero Price	324
15.7 Contributions, Copyright, and Participation	308	15.16 Open Source as Community-Provisioned Public Good	326
15.8 Communities, Contributors, and Merit	309		
15.9 Value at the Edge of the Commons	312		

政府技术政策、社会价值和国家竞争

- Frank Nagle
- Linux 基金会首席经济学家
- 《开源的价值》
- [https://papers.ssrn.com/sol3/cf_dev/
AbsByAuth.cfm?per_id=2047070](https://papers.ssrn.com/sol3/cf_dev/AbsByAuth.cfm?per_id=2047070)
- 一直致力于显式展示开源价值的方式，从最早的文章《Digital Dark Matter and the Economic Contribution of Apache》开始，2014



开源经济学的研究综述

- 交易成本 
- 事实标准 
- 创新及其扩散 
- Commons 
- 组织及其治理 

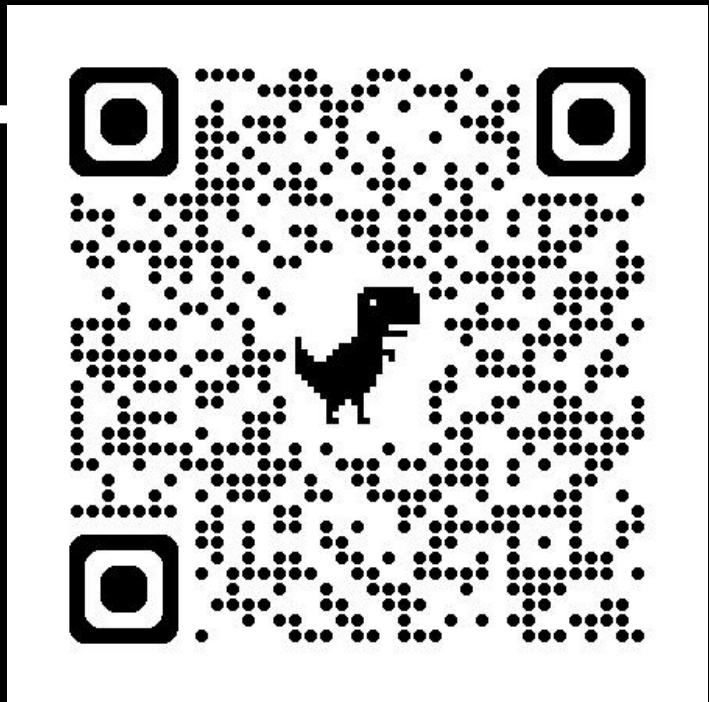




COSCon'25

第十届中国开源年会

众智开源 | Open Source, Open Intelligence



「开源之道」·适兜

