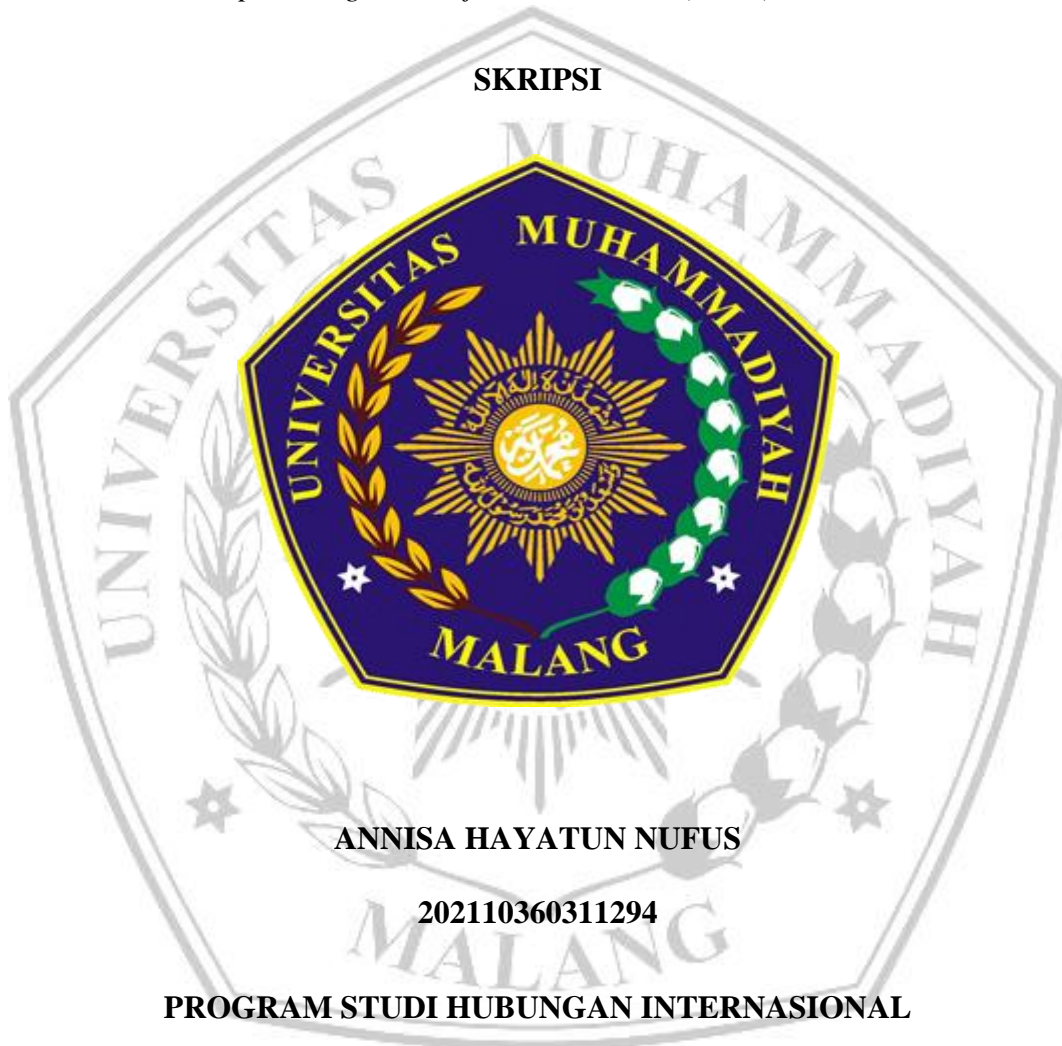


**PENGARUH ASEAN PLUS THREE (APT) TERHADAP PERTUMBUHAN  
RANTAI PASOKAN INDUSTRI SEMIKONDUKTOR SINGAPURA**

*Disusun dan diajukan untuk memenuhi salah satu syarat  
memperoleh gelar Sarjana Ilmu Sosial (S.Sos) Strata -1*

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**2025**

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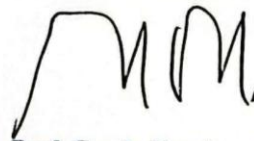
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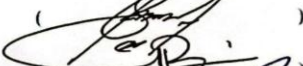



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
















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3. Tugas akhir ini dapat dijadikan sumber pustaka yang merupakan HAK BEBAS ROYALTY NON EKSKLUSIF.

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## ABSTRAK

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Dinamika geopolitik yang semakin kompleks dan inkonsisten rantai pasokan global dalam sektor semikonduktor mengharuskan berbagai negara memperkuat diri dalam ketahanan rantai pasokan. Singapura telah memanfaatkan kerja sama regional melalui ASEAN Plus Three untuk memperkuat ketahanan dan daya saing sektor semikonduktor. Penelitian ini bertujuan untuk melihat bagaimana pengaruh ASEAN Plus Three terhadap pertumbuhan rantai pasokan semikonduktor Singapura dengan mengadopsi teori liberal institusionalisme dan konsep *trickle-down effect*. Hasil penelitian menunjukkan bahwa ASEAN Plus Three berkontribusi secara positif terhadap pertumbuhan industri semikonduktor Singapura melalui peningkatan investasi, transfer teknologi, kolaborasi R&D dan pengembangan sumber daya manusia lokal guna meningkatkan stabilisasi rantai pasokan regional. Kerja sama ASEAN Plus three menunjukkan adanya efek tetesan dari negara-negara *plus three* yakni Tiongkok, Jepang, dan Korea Selatan yang memungkinkan Singapura untuk mengakses teknologi canggih dan kolaborasi dalam meningkatkan kapasitas produksinya. Meningkatnya perkembangan Industri Semikonduktor Singapura berkontribusi terhadap meningkatnya lapangan pekerjaan, pendapat per kapita dan secara aktif berkontribusi penuh pada *gross national product* (GDP). ASEAN Plus Three juga berkontribusi pada peningkatan daya saing tenaga kerja dan diversifikasi produk semikonduktor, serta mengurangi ketergantungan rantai pasokan global yang rentan terhadap disrupsi geopolitik dan ekonomi, sehingga berkontribusi pada ketahanan dan posisi Singapura dalam rantai pasokan industri semikonduktor global.

**Kata kunci: ASEAN Plus Three, Semikonduktor, Singapura, Sosio-Ekonomi, Rantai Pasokan.**

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*The semiconductor industry's increasingly complicated geopolitical dynamics and uneven worldwide supply chains necessitate a strengthening of supply chain resilience across numerous regions. Singapore has used ASEAN Plus Three to increase the resilience and competitiveness of the semiconductor industry. The purpose of this study is to investigate how ASEAN Plus Three effects the expansion of Singapore's semiconductor supply chain using liberal institutionalism theory and the trickle-down effect concept. The results of this research reveal that ASEAN Plus Three positively contributes to the expansion of Singapore's semiconductor industry by increasing investment, technological transfer, R&D collaboration, and local human resource development to improve regional supply chain stability. ASEAN Plus Three cooperation has a trickle-down effect from the plus three countries, particularly China, Japan, and South Korea, allowing Singapore to get access to modern technologies and collaborate on improving its manufacturing capacity. The growing development of Singapore's semiconductor industry helps to increase employment and per capita income while also actively contributing to the gross national product (GDP). ASEAN Plus Three additionally contributes to improving workforce competitiveness and diversification of semiconductor products, as well as reduce reliance on the global supply chain, which is vulnerable to geopolitical and economic disruptions, thereby strengthening Singapore's resilience and position in the global semiconductor industry supply chain.*

**Keywords: ASEAN Plus Three, Semiconductor, Singapore, Socio-Economic, Supply Chain.**

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Penulis menyadari bahwa masih banyak kekurangan dalam skripsi ini dan saya terbuka untuk setiap masukan yang membentuk saya menjadi yang lebih baik kedepannya. Penulis berharap semoga skripsi ini dapat bermanfaat baik bagi penulis dan pihak yang membutuhkannya.

Malang, 20 Januari 2025

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Annisa Hayatun Nufus

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## DAFTAR SINGKATAN



AANZFTA	:	ASEAN-Australia-New Zealand Free Trade Area
ABMII	:	Asian Bond Markets Initiative
ACFTA	:	ASEAN-China Free Trade Area
AFMM+3	:	The ASEAN+3 Finance Ministers Cooperation
AFTA	:	ASEAN Free Trade Area
AKFTA	:	ASEAN-Korea Free Trade Area
AMAF+3	:	ASEAN Ministry on Agriculture and Forestry Plus Three
AMMTC+3	:	Ministerial Meeting on Transnational Crime
AMRO	:	ASEAN Macroeconomic Research Office
APAEC	:	ASEAN of Association for Energy Cooperation
APEC	:	Asia-Pacific Economic Cooperation
APT	:	ASEAN Plus Three
APT FMM	:	ASEAN Plus Three Foreign Ministers Meeting
ASEAN	:	Association of Southeast Asian Nations
ASEAN+3	:	ASEAN Plus Three
ASOMM+3	:	ASEAN Senior Official Meeting on Minerals Cooperation+3
CAFTA	:	China-ASEAN Free Trade Agreement
CCD	:	Charge-Coupled-Device
CMII	:	Chiang Mai Initiative
CMIM	:	Chiang Mai Initiative Multilateralization
COSTI+3	:	Comite on Science, Technology and Innovation Plus Three
CPR	:	Committee of Permanent Representative
CSFTA	:	China-Singapore Free Trade Area
EAEC	:	East Asia Economic Caucus
EAEG	:	East Asia Economic Group
EBL	:	Electron Beam Litography
EDB	:	Singapore Economic Development Bank
FDI	:	Foreign Direct Investment

GIST	:	Gwangju Institute of Science and Technology
HDB	:	The Housing Development Board
HRDSK	:	Human Resource Development South Korea
ICT	:	Information-Communication-Technology
IoT	:	Internet of Things
KAFTA	:	Korea-ASEAN Free Trade Agreement
KAIST	:	Korea Advanced Institute of Science and Technology
KIMM	:	Korea Institute of Machinery & Materials
KTT	:	Konferensi Tingkat Tinggi
OSAT	:	Outsourced Semiconductor Assembly and Test
RCEP	:	Regional Comprehensive Economic Partnership
SIA	:	Semiconductor Industri Association
SIMTECH	:	Singapore Institute of Manufacturing Technology
SIT	:	Singapore Institute of Technology
SMIC	:	Semiconductor Manufacturing International Corporation
SOM	:	Senior Official Meeting
STI+3	:	Science, Technology and Information Plus Three



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