

INCOME-BASED TAX INCENTIVES FOR R&D AND INNOVATION – AN INTEGRATED VIEW

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Delivering new insights on income-based tax incentives for R&D and innovation (IBTIs)

OECD KNOWINTAX project (now IPTAX) launched by CTP-STI in 2020, drawing on FHTP reviews and contributions of OECD R&D tax incentives network (NESTI, WP2 and FHTP delegates) to **three surveys**



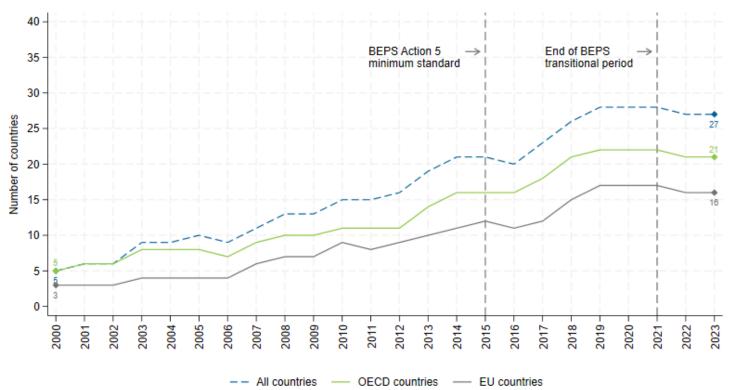




Income-based tax incentives for R&D and innovation have expanded over time

Number of countries offering IBTIs

Central and subnational level



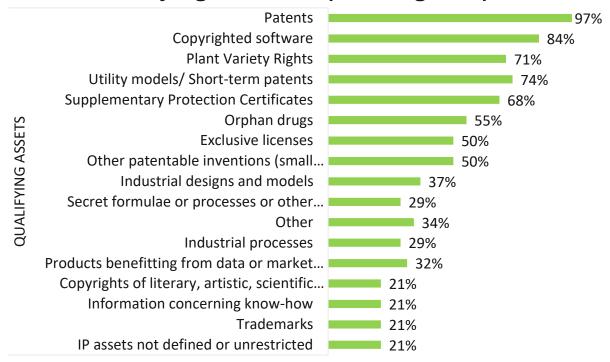
 Different goals: promoting R&D and innovation, the commercialisation of IP, and avoiding IP relocation

14 out of 16 EU countries
 (19 out of 21 OECD countries) offering IBTIs
 also offer expenditure-based tax incentives (XBTI)



The design of IBTIs varies across jurisdictions and matters for their generosity

Qualifying IP assets (% of regimes), 2022



Qualifying IP income (% of regimes), 2022

Royalties 97% Sale and transfer of IP 81%

Embedded IP income 76%

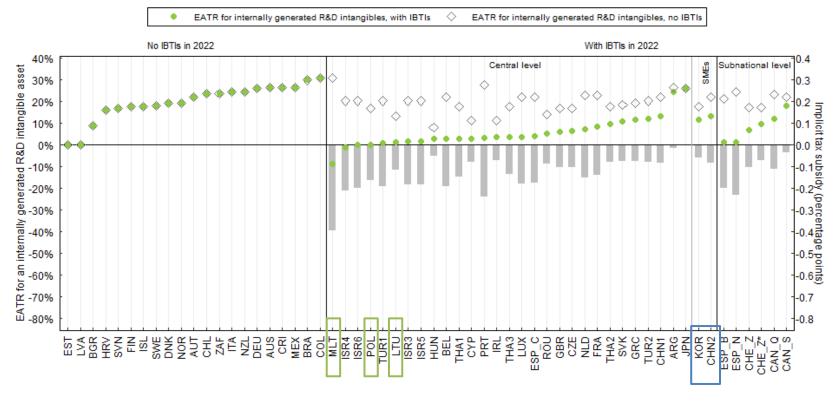
Income from infringement 73%

- They mostly target formally protected assets (e.g. patents), with some exceptions for small taxpayers
- They support all forms of commercialisation but also
 IP protection
- The calculation of tax
 benefits varies across
 countries tax base effects



IBTIs can deliver substantive tax benefits

Effective Average Tax Rates (EATRs) for internally generated R&D intangibles, 2022

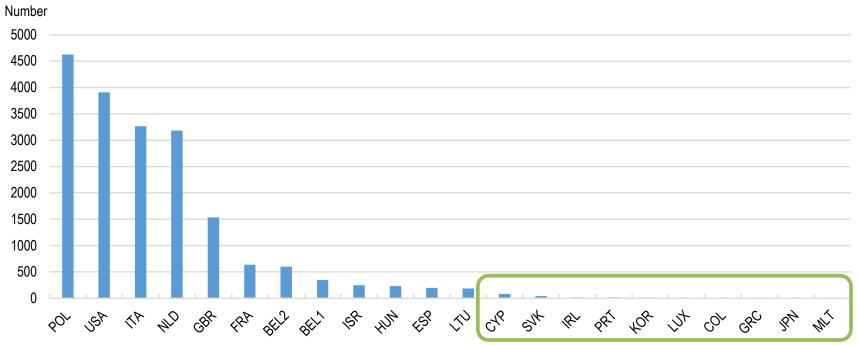


- IBTIs reduce EATRs by
 66% to average 6% in
 2022
- Rarely targeted to SMEs, but SMEs can in some cases access relief for a wider set of assets
- Accounting for expenditure-based tax incentives may significantly alter the picture



The uptake of income-based tax relief by firms varies across jurisdictions

Number of income-based tax relief beneficiaries, 2020 (or closest)



Note 1: Applicants: COL; Claimants: GBR, IRL, USA; Deduction for patent income (BEL1) and innovation income (BEL2). Indicators are preliminary and subject to change. Data coverage is partial.

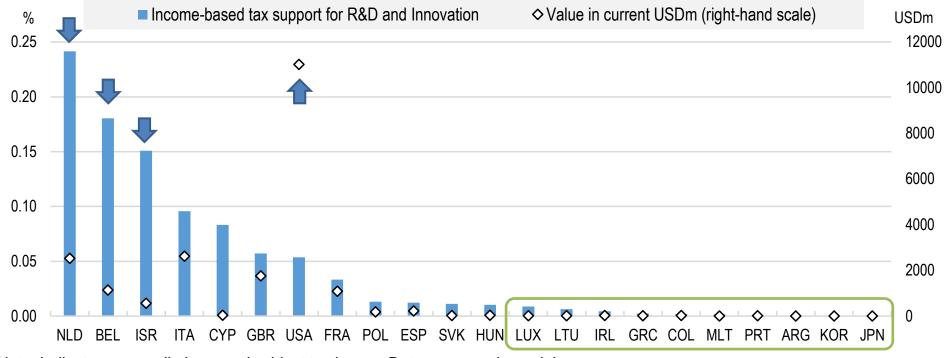
- Tax benefits tend to accrue to a subsample of the firm population (<100 firms) in 10 out of 21 countries. Poland (~4600), the United States (~3600) and Italy (~3260) reported the most recipients.
- SMEs (not shown here) represent the majority of recipients (>= 80% in GBR, NLD, LTU, HUN, ISR)



Differences in uptake and generosity imply differences in forgone revenues

Estimates of forgone tax revenue, 2020 (or closest)

As a percentage of GDP, current USD million (right-hand scale)



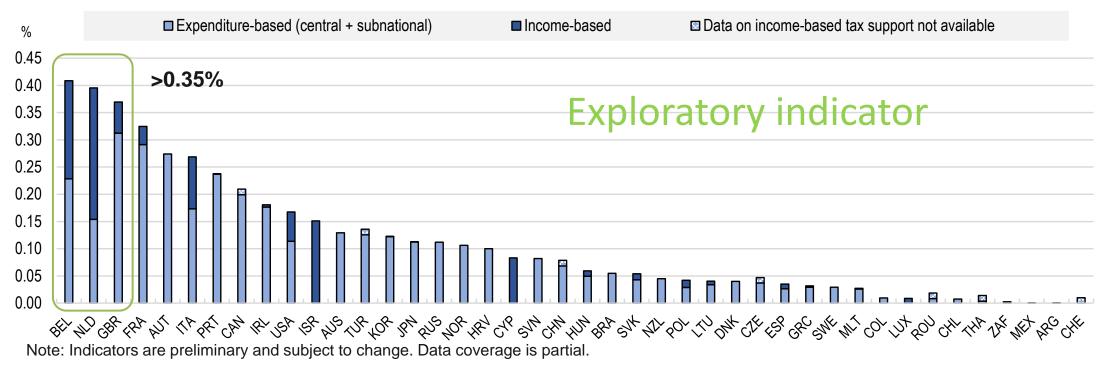
Note: Indicators are preliminary and subject to change. Data coverage is partial.

- Tax support appears modest in 10 of the 22 jurisdictions covered (<0.01% GDP). As % GDP, it is largest in the Netherlands, Belgium and Israel, and in absolute terms (USDm) in the United States.
- Distribution of tax benefits (not shown here) tilted towards large firms (>= 90% in GBR, ITA, LTU, NLD)



Visible uplift in the amount of tax support for R&D&I but role of income-based incentives varies strongly

Expenditure- and income-based tax relief for R&D and innovation (% GDP), 2020 (closest)



- Among countries that offer R&D tax incentives of either type, the total amount of tax support for R&D innovation as % of GDP ranges from 0.01% (e.g. CHL, COL, HRV, LUX) to more than 0.35% (BEL, NLD, GBR)
- Among countries that offer tax incentives, the share of income-based in total tax relief for R&D&I varies from close to 0% (JPN, PRT, KOR) to 40% in BEL, 60% in NLD and 100% in ISR, CYP and LUX.



Concluding remarks

First MABIS2-IPTAX outputs

- First time release of indicator on <u>effective tax rates (ETRs) for R&D intangibles</u>
 for 2023 in CTS database in July 2024
- Planned, first time release of indicator on foregone tax revenue for 2021 (or closest) as part of <u>OECD R&D tax incentives database</u> in Q4 2024
- Planned release of Highlights from 2024 IPTAX survey (web blog)

Future work

- 2025 IPTAX survey
- Analytical report on innovation tax incentives with main results from data collection and insights on implications and impact of global tax reform (~Q4 2025)
- Integration of income-based tax incentives for R&D&I in OECD INNOTAX portal
- Publications: OECD R&D tax incentives website and INNOTAX portal



THANK YOU!

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- Footnote regarding the data for Israel in this presentation:
 - The statistical data for Israel are supplied by and under the responsibility of the relevant Israeli
 authorities or third party. The use of such data by the OECD is without prejudice to the status of the
 Golan Heights, East Jerusalem and Israeli settlements in the West Bank under the terms of
 international law.
- Footnote regarding the data for Cyprus in this presentation:
 - Footnote by Türkiye: The information in this document with reference to "Cyprus" relates to the southern part of the Island. There is no single authority representing both Turkish and Greek Cypriot people on the Island. Türkiye recognises the Turkish Republic of Northern Cyprus (TRNC). Until a lasting and equitable solution is found within the context of the United Nations, Türkiye shall preserve its position concerning the "Cyprus issue".
 - Footnote by all the European Union Member States of the OECD and the European Union: The Republic of Cyprus is recognised by all members of the United Nations with the exception of Türkiye.
 The information in this document relates to the area under the effective control of the Government of the Republic of Cyprus.