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R&D Capitalization: Where did we go wrong?

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Issues covered

The SNA fixed asset approach: does one size fits all?



- The distinction between knowledge and a knowledge asset in the SNA sense (Not Further Discussed).
- 2. How is R&D connected to the MNE's global production chains?
- 3. Are national accountants able to 'look through' IP driven tax planning arrangements?
- 4. Conclusions.
- Recommendations.

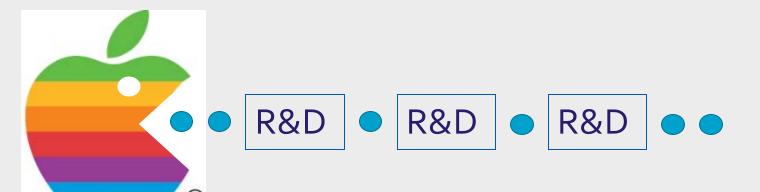


R&D in MNEs



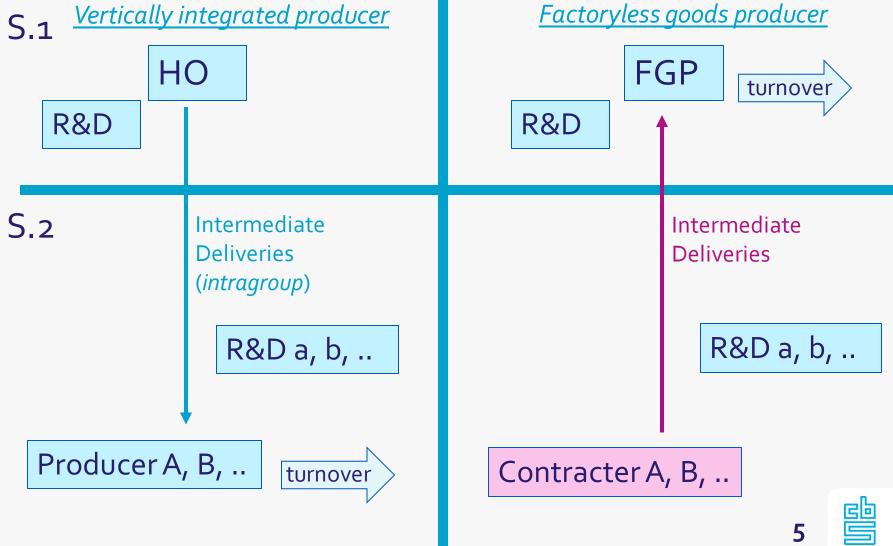
2. How does R&D enter the MNE?

- Decisions on R&D programs are strategic and tend to occur high in the organizational structure;
- R&D input is indirect and upfront;
- Product development tends to interfere with entire supply chains;
- R&D facility locations are not necessarily related to output locations...





2. How does R&D enter the MNE?





2. How does R&D enter the MNE?

The establishment serves as the unit of production:

$$Y = K + L + E + M + S$$

- R&D assets cannot be assigned to establishments
- R&D expenditure (Frascati) is collected at the level institutional sectors: the enterprise (group);
- -> Should the SNA assign R&D ownership to the enterprise (group)?
- -> Should we totally abandon the establishment as unit of production?



Role of IP in tax planning



3. IP driven tax planning



Two examples:

- Google: 'Double Irish Dutch Sandwich'
- Nike: 'De commanditaire vennootschap'

....but the same kind of arrangement.

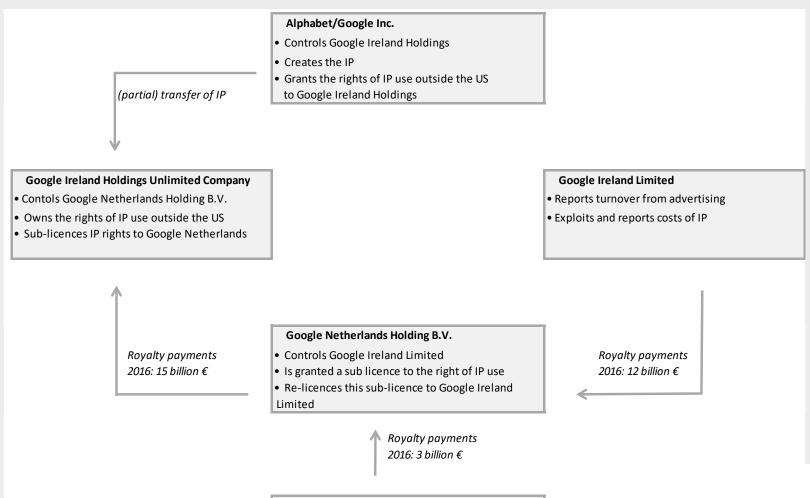


3. IP driven tax planning

Main elements:

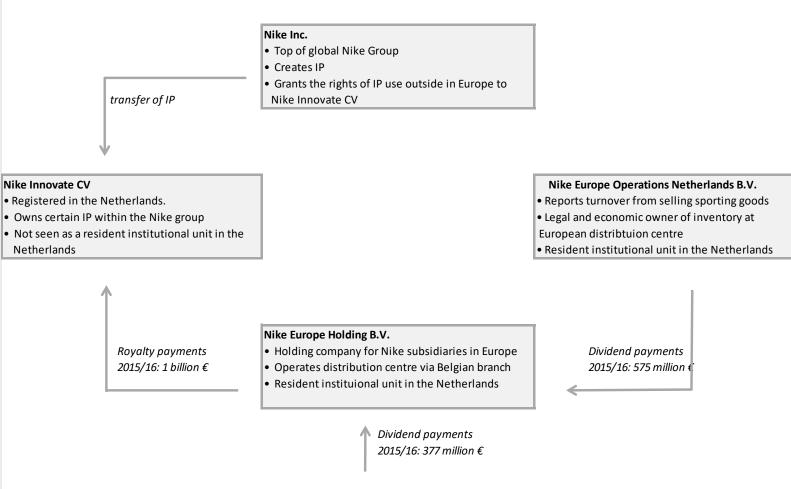
- R&L (brass-plate) in a low tax jurisdiction, often with a peculiar tax (and residency) status;
- The R&L is legal IP owner but not in the business of IP creation;
- 3. Charges IP costs (produced, non-produced) to an affiliate in a high tax jurisdiction. This affiliate will typically report (high) turnover.
- 4. Both entities have the same parent in yet another jurisdiction.

Double Irish with a Dutch Sandwich



Google Asia Pacific

De commanditaire vennootschap



Other subsidiaries

3. IP driven tax planning

Accounting implications:

 IP assets and transactions may not show up in the accounts of any country



- Royalties on non-produced assets (marketing)
- The Bermuda triangle sink cannot be ignored, neither the Dutch Polder.
- -> Bermuda GDP is 4.9 billion US \$ while the Google R&L income is 14.9 billion €.

Conclusions and recommendations



4. Conclusions

Public R&D

- Knowledge is not an economic asset in itself
 - Exclusive access is key
- SNA went too far in capitalising public (or freely available) R&D

R&D in MNEs

- Current SNA has little understanding for R&D ownership in MNEs
 - Further research is needed



4. Conclusions

IP and tax planning

- Role of IP in tax planning -> problematic!
 - Observation and recording on strict national basis is not working
 - Key units within MNEs are not present in source statistics



5. Recommendations

Public R&D

Refine definition of R&D assets

R&D in MNEs

- Research assigning R&D ownership to enterprise group or headquarters
- 3. NSIs must co-operate on recording and share information at enterprise level



5. Recommendations

Tax planning

- 4. NSIs must cooperate and share information
- 5. Support country-by-country reporting as a means to better source information (BEPS)
- 6. Consider recording of royalties related to non-produced assets
- 7. Open up and be honest with users about issues around tax planning

