# **ESSENTIALITY CHECKS**



In the Communication COM(2017) 712 final, the EC suggested that a higher degree of scrutiny on essentiality claims is needed. In his paper Professor Giuseppe Colangelo assesses the pros and cons of the different scenarios examined in a pilot study commissioned by the EC on essentiality checks.

Check out the paper and takeaways below.

Read paper here

**Key Takeaways** 



time-consuming.



accuracy, transparency and costs.



legally binding.





Self-assessment

**PROS AND CONS** of the different **SCENARIOS** of the feasibility study

on **ESSENTIALITY CHECKS** 



**PROS** 

**CONS** No independent essentiality check.



Low costs.







### Highly expensive and time-consuming, particularly in the

**Assessment of all SDO disclosed patents** 

standard to a standard development organisation (SDO)

undergoes through a comprehensive evaluation.

case of large patent portfolios.



Lower accuracy and confidence level.

**Random sampling** 

Essentiality assessment for only a subset of patents. Specialists at an independent

organisation conduct essentiality examinations for only one member of the patent family of a



Increased of invalidity proceedings to delay payments after claim

or by third-party

of an increased information availability.

an essentiality check.

semantic similarity metrics.

High score in terms of transparency.

understood by automated systems.

PROS

**CONS** 

**PROS** 

**CONS** 



charts lose their confidential nature.



Requested by patent owner

Complementing scenario D, also, third-parties can request

Positive impact on the quality of the assessment because

 Increased of invalidity proceedings to delay payments after claim charts lose their confidential nature.



## **Al-based assessment** Employing Al-driven automated text comparison, leveraging

**PROS** 

in sampling.

 Risks of gaming: patent owners could anticipate the working of Al systems and adapt the wording in patent applications. · Similarity and essentiality are not equivalent concepts (i.e., a patent may be essential to a standard but not have the textual

Same as scenario G.

Same as scenario G.

CONS

by Axel Contreras-Alvarez

**Rigorous) Approaches** 

by Haris Tsilikas

Scalability: automated systems could increase the speed of the process and reduce its cost compared to human assessments.

similarities that would overlap in the analysis of the AI tool).

The precise meaning of terminology is not yet easily

# Voluntarily request by patent owner: **Assistive AI system** An assessment initiated at the request of the patent owner is complemented with the AI systems by selecting patents that are most likely to be essential. **PROS**

## **Resources:**

- Patent Landscaping Studies And Essentiality Checks: Rigorous (And Less
- Estimating 5G Patent Leadership: The Importance of Credible Reports by Igor Nikolic A Study of IPlytics Standard Essential Patent Tool
- by Tim Williams Al for Patent Essentiality Review by Katie Atkinson and Danushka Bollegala

· Why automated patent analysis can be wrong, even when it's right

- Essentiality Checks Might Foster SEP Licensing, But Do Not Stop Over-Declarations from Inflating Patent Counts and Making Them Unreliable Measures by Keith Mallinson
- Pilot study for essentiality assessment of Standard Essential Patents by Rudi Bekkers, Joachim Henkel, Elena Mas Tur, Tommy Van Der Vorst, Menno Driesse, Byeongwoo Kang, Arianna Martinelli, Wim Maas, Bram Nijhof, Emilio Raiteri, Lisa Teubner