

**BASF is obtaining long-term access to QIRA<sup>®</sup> bio-based 1,4-butanediol (BDO) from Qore<sup>®</sup> LLC (Qore), a joint venture of Cargill and HELM AG.**

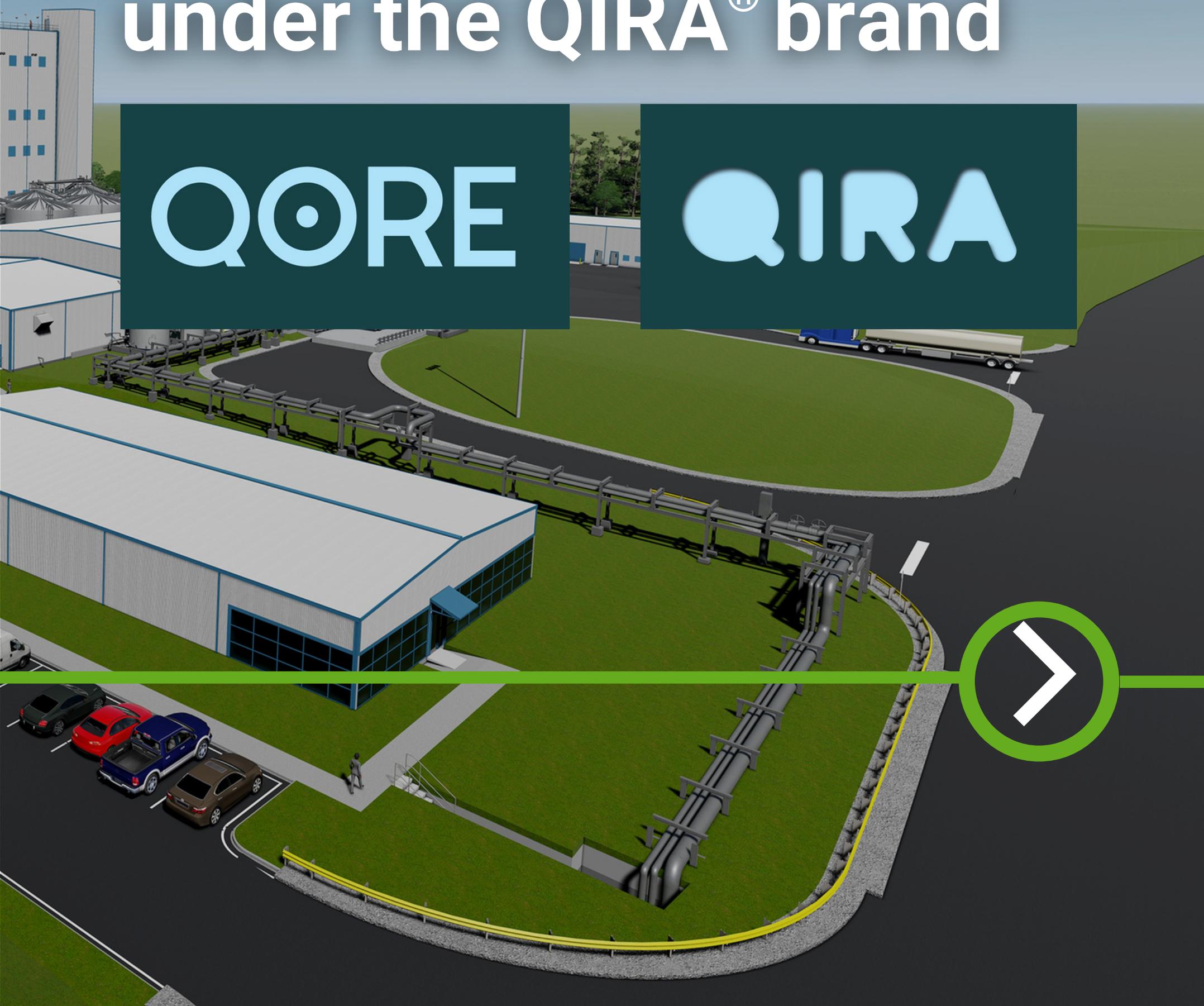
**With QIRA<sup>®</sup>, BASF will expand its portfolio with bio-based BDO derivatives**



# Qore<sup>®</sup> produces bio-based BDO under the QIRA<sup>®</sup> brand

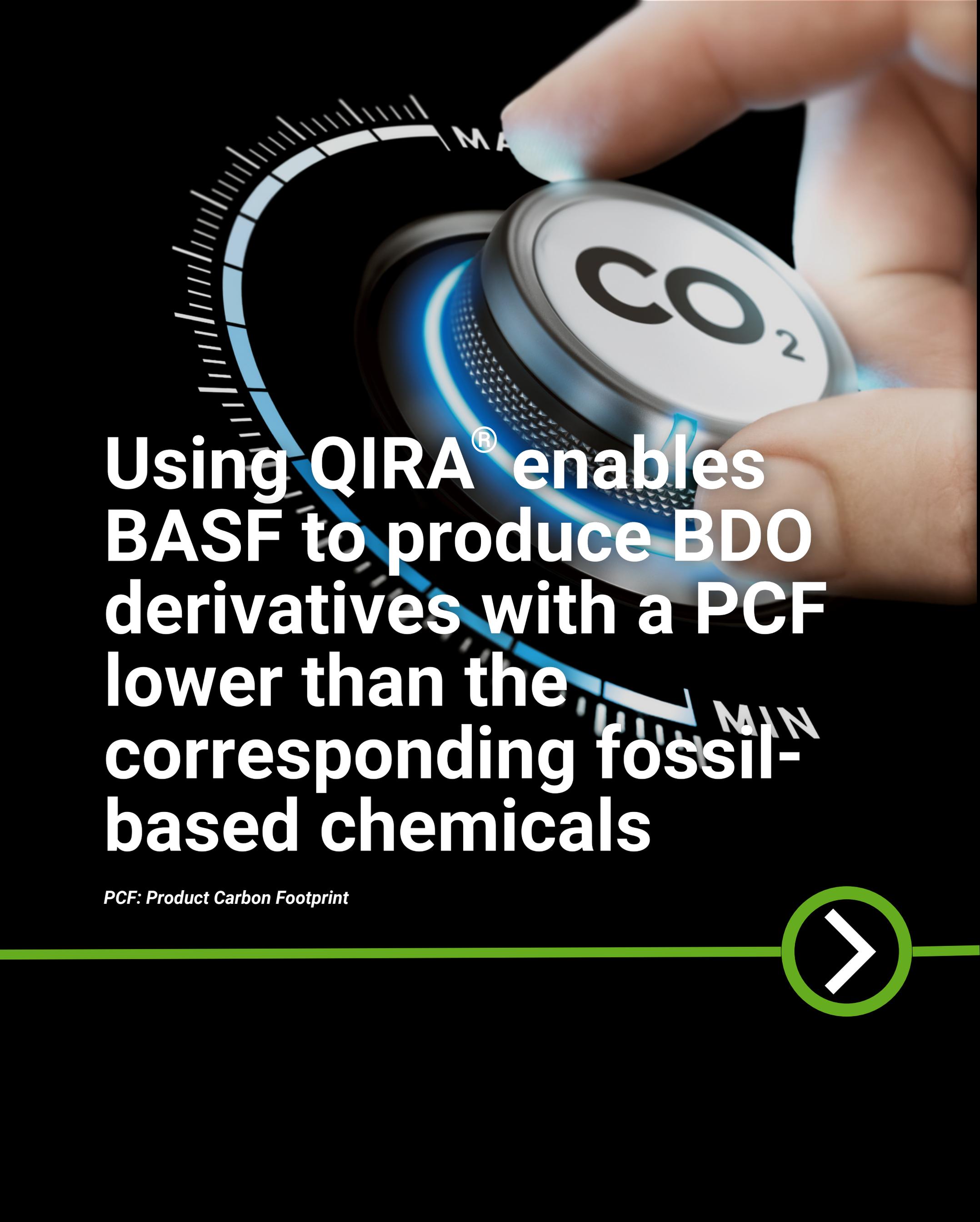
QORE

QIRA



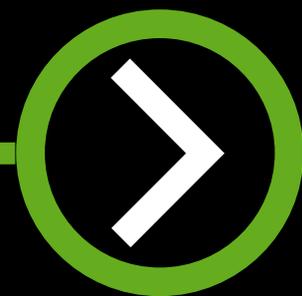
**QIRA<sup>®</sup> is made through the fermentation of plant-based sugars obtained from field corn and will be of the same quality as fossil-based BDO with the same specification**





**Using QIRA<sup>®</sup> enables  
BASF to produce BDO  
derivatives with a PCF  
lower than the  
corresponding fossil-  
based chemicals**

*PCF: Product Carbon Footprint*



# Large variety of applications for BDO downstream products PolyTHF<sup>®</sup> and THF

BASF is among the world's leading manufacturers of BDO derivatives

 **BASF**  
We create chemistry