



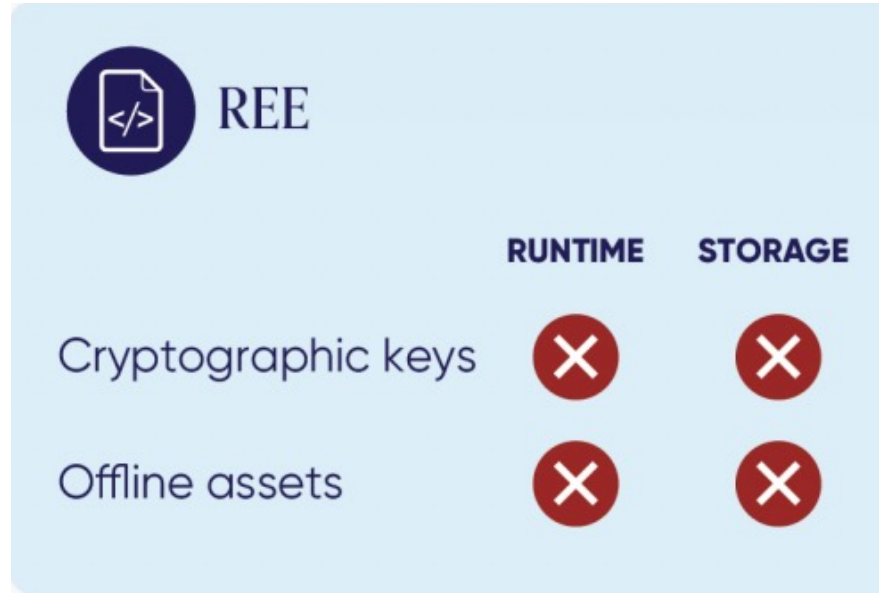
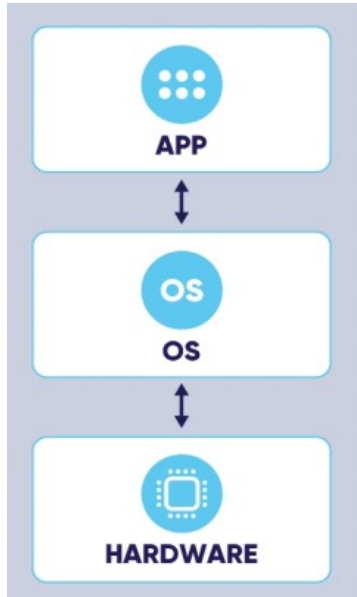
# Enabling offline payments in an online world

Ensuring trust in scalable  
offline solutions



# Payments in an online world

## Smartphones

















































## Smartcards



**Enabling offline payments in an online world**

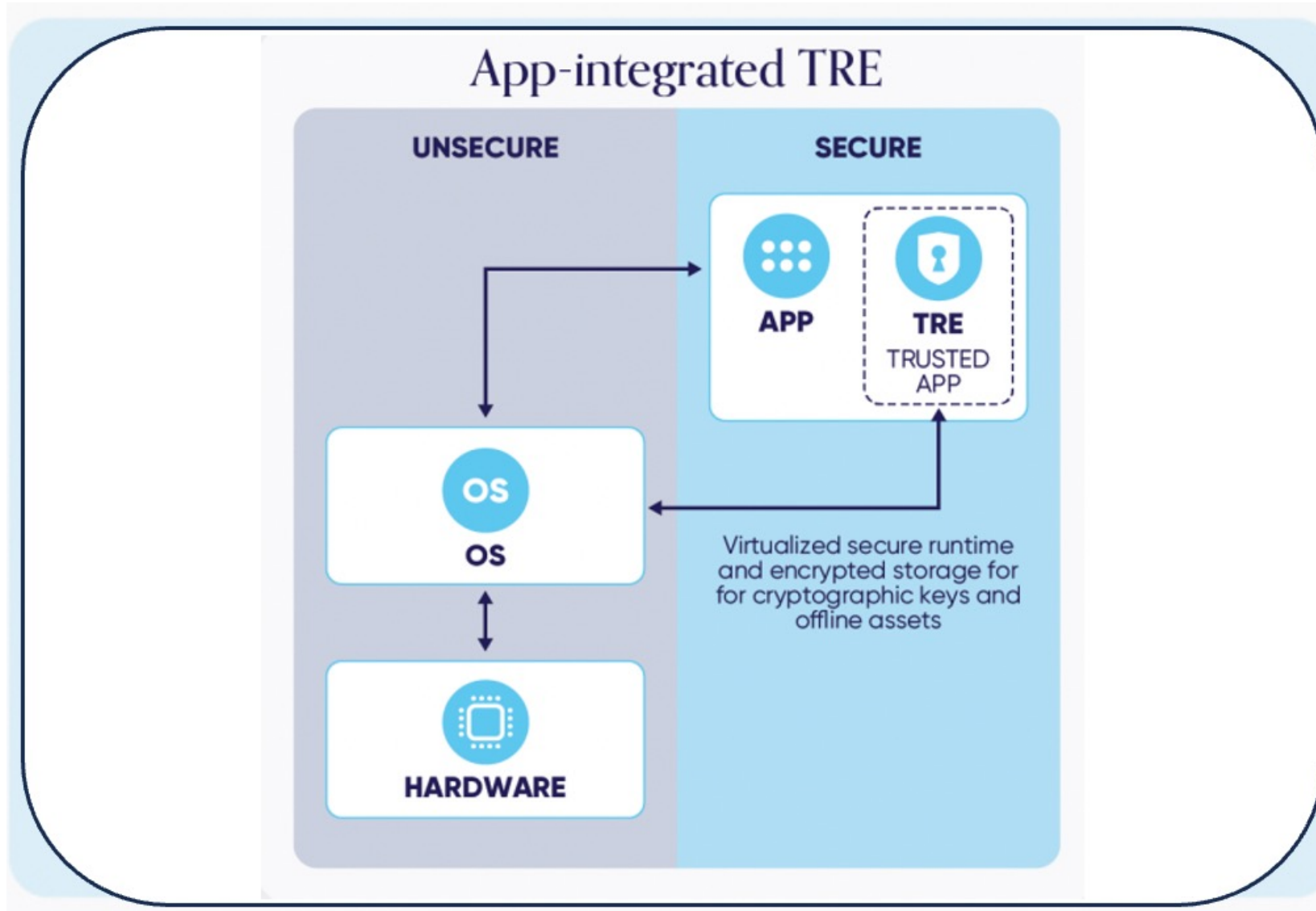
# Enabling offline payments on smartphones



	UNSECURE	SECURE																		
SOFTWARE	<p> REE</p> <table border="1"><thead><tr><th></th><th>RUNTIME</th><th>STORAGE</th></tr></thead><tbody><tr><td>Cryptographic keys</td><td></td><td></td></tr><tr><td>Offline assets</td><td></td><td></td></tr></tbody></table>		RUNTIME	STORAGE	Cryptographic keys			Offline assets			<p> App-integrated TRE</p> <table border="1"><thead><tr><th></th><th>RUNTIME</th><th>STORAGE</th></tr></thead><tbody><tr><td>Cryptographic keys</td><td></td><td></td></tr><tr><td>Offline assets</td><td></td><td></td></tr></tbody></table>		RUNTIME	STORAGE	Cryptographic keys			Offline assets		
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# *Only viable offline smartphone solution*



crunchfish 