

#### **Global Investment Research**

### Is crypto the next asset class?

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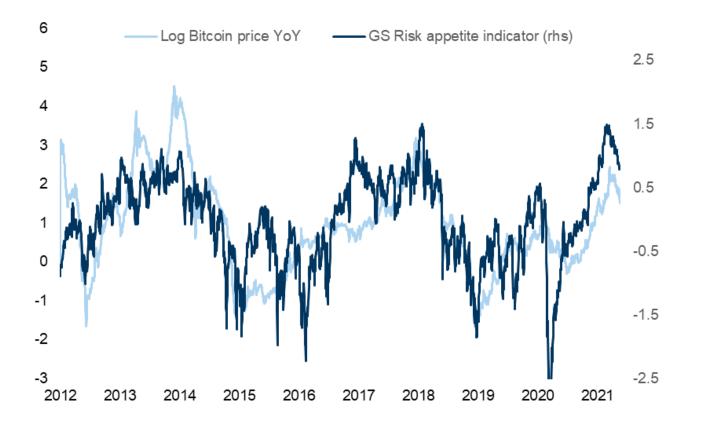
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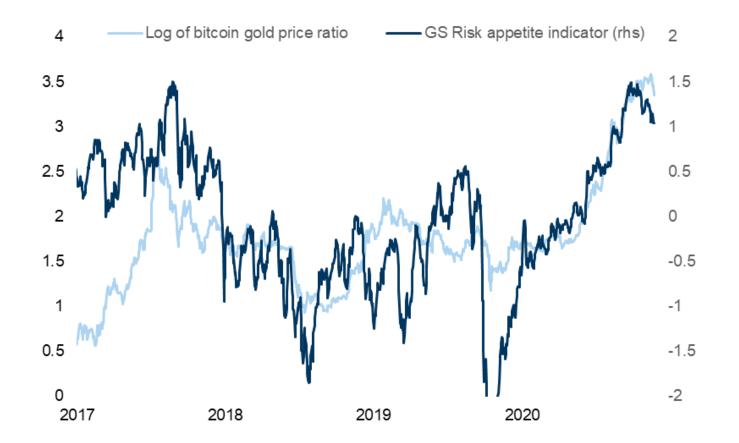
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#### Goldman Sachs Cryptocurrencies are risk-on assets

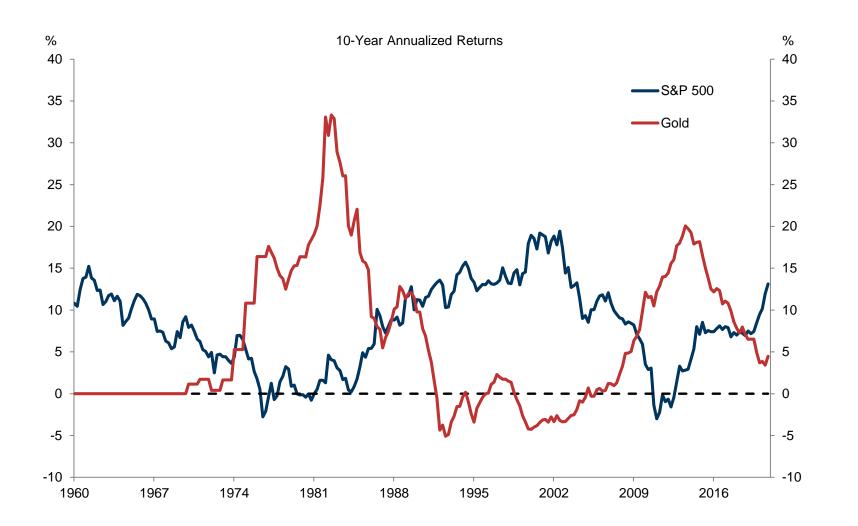


Source: Bloomberg, Goldman Sachs Global Investment Research.

# Bitcoin and gold trade in opposite directions which suggests very little cannibalization of gold

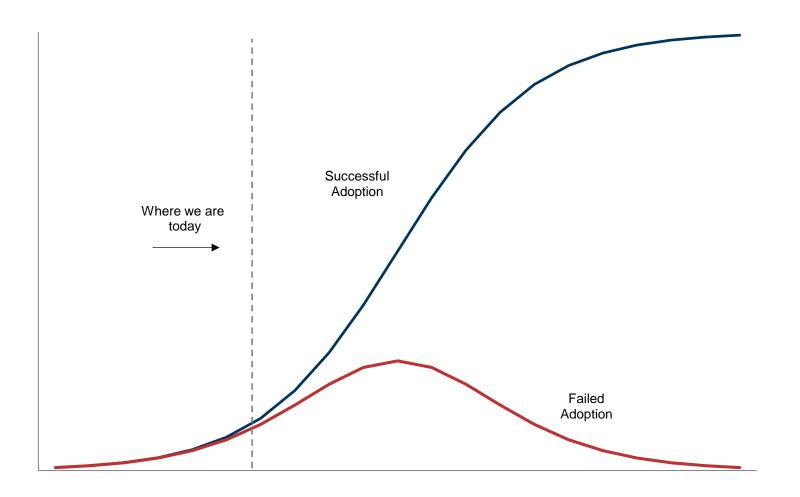


# Gold plays an important diversification role in portfolios



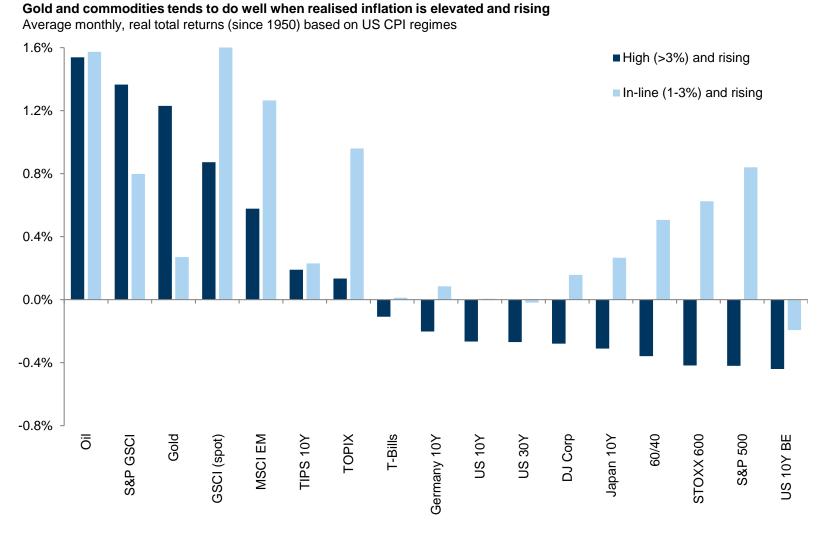
Source: Bloomberg, MeasuringWorth, Goldman Sachs Global Investment Research.

## Today's bitcoin prices reflect some probability that cryptos could achieve greater adoption in the future



Source: Goldman Sachs Global Investment Research.

# Real assets might offer an inflation hedge when balanced portfolios fail



Source: Bloomberg, Datastream, Haver Analytics, Goldman Sachs Global Investment Research.

#### Goldman Sachs

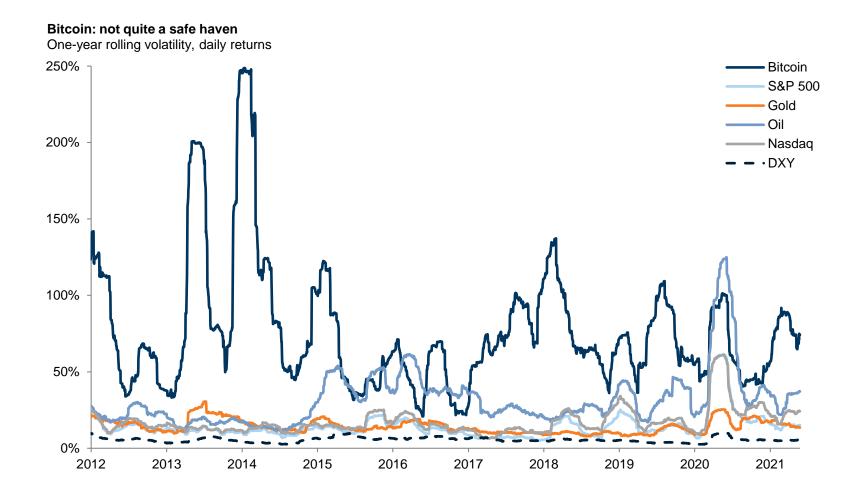
# Benefits from adding bitcoin to a 60/40 portfolio – difficult to assess based on short history

A small allocation to bitcoin has enhanced a 60/40 portfolio in recent years

	US 10yr			60/40	Allocation to Bitcoin			
	S&P 500	bond	Bitcoin	portfolio	+2.5%	+5%	+10%	+20%
Since 2014								
Return p.a.	14%	4%	79%	10%	12%	14%	19%	27%
Volatility (daily)	18%	6%	73%	10%	10%	10%	12%	18%
Volatility (monthly)	15%	6%	87%	8%	9%	10%	13%	20%
Return/ volatility	0.77	0.60	1.08	1.03	1.24	1.39	1.53	1.53
5% CVaR	-10%	-3%	-35%	-5%	-6%	-6%	-7%	-10%
Max drawdown	-34%	-11%	-83%	-18%	-19%	-19%	-20%	-29%
2014-2019								
Return p.a.	12%	4%	46%	9%	11%	12%	15%	21%
Volatility (daily)	13%	6%	74%	7%	7%	8%	10%	16%
Volatility (monthly)	11%	6%	87%	6%	7%	8%	11%	19%
Return/ volatility	0.92	0.66	0.62	1.26	1.46	1.56	1.53	1.31
5% CVaR	-7%	-3%	-35%	-4%	-4%	-4%	-5%	-8%
Max drawdown	-19%	-11%	-83%	-11%	-11%	-12%	-18%	-29%

Source: Bloomberg, Goldman Sachs Global Investment Research.

## High volatility can reduce portfolio construction benefits



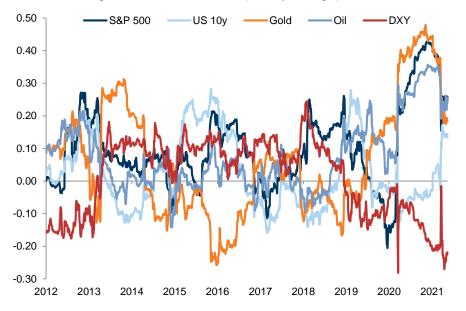
Source: Bloomberg, Goldman Sachs Global Investment Research.

#### Goldman Sachs

# High idiosyncratic risk for bitcoin can overshadow macro relationships

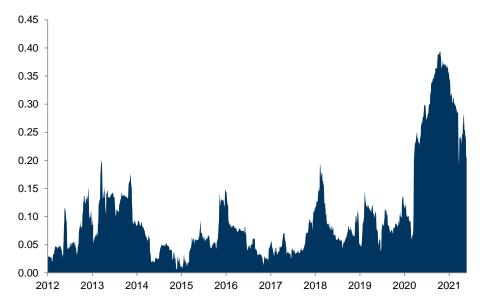
#### After high correlation with risky assets last year, recently bitcoin has acted as Dollar debasement hedge

12-month rolling correlation with bitcoin (weekly change)



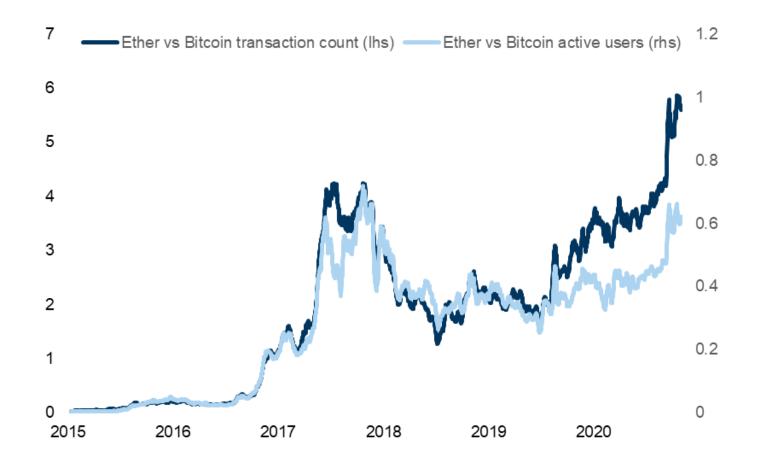
#### Bitcoin has had high idiosyncratic risk since its inception

One-year rolling R-squared of a regression of bitcoin on S&P 500, US 10y bond, oil, gold, and DXY, weekly changes



Source: Bloomberg, Goldman Sachs Global Investment Research.

#### Soldman Non-currency crypto assets are starting to dominate use



Source: Glassnode, Goldman Sachs Global Investment Research.

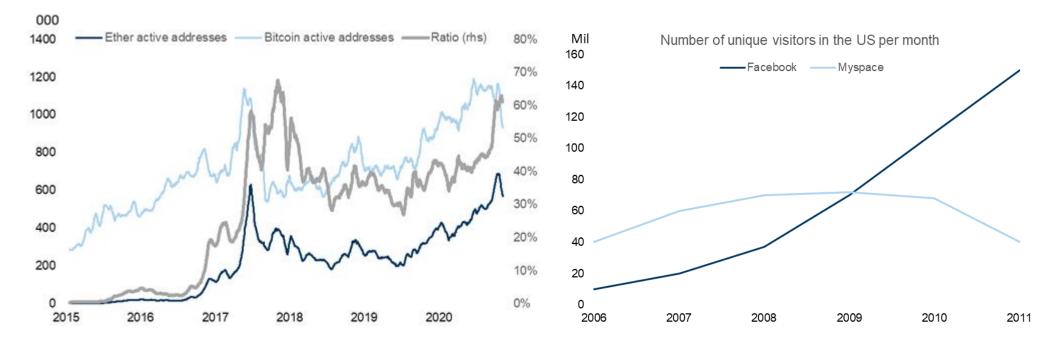
## Real demand for gold is a powerful price stabilization tool



Source: World Gold Council, Goldman Sachs Global Investment Research.

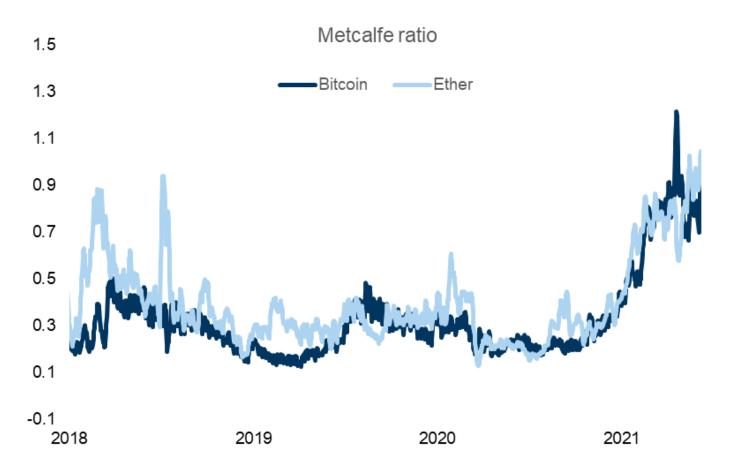
Goldman Sachs

### As a new industry crypto user base numbers remain highly volatile, meaning that leadership can change quickly



Source: Comcore, Goldman Sachs Global Investment Research.

### Both Bitcoin and Ether currently still look expensive given their current user base



The metcalfe ratio is calculated as market cap of the network divided by square number of active users.