# *fLAB fUNDS Sicav - fLAB Satellite*

## *Relative Return UCITS Fund - www.flabfunds.com*

*fLAB*
*44 Rue de la Vallée, L-2661 Luxembourg*

*The Compartment aims to provide long-term capital growth through a tactical and dynamic allocation portfolio.*
*fLAB Satellite tries to maximize Sharpe Ratio (Relative Return), through a multi style, multi class portfolio.*

***Net assets USD: 12.94 M*** ***January 31, 2019***

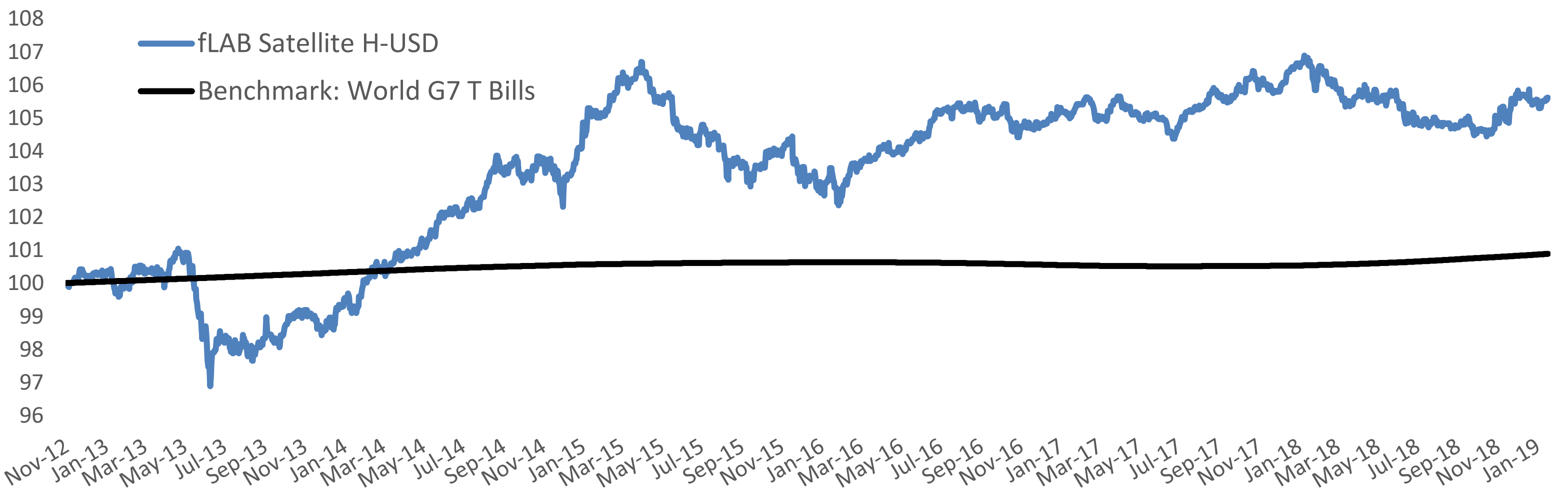
| | share | NAV | ytd | ISIN | inception | Mg Fee | 2018 | 2017 | 2016 | 2015 | 2014 | 2013 | 2012 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| usd hedged | H-USD | 105.61 | 0.02 | LU0847086740 | dec´12 | 0.91% | -0.74% | 1.40% | 1.68% | -0.21% | 4.73% | -1.57% | 0.32% |
| usd hedge clean | Cl H-USD | 100.01 | 0.05 | LU1805616841 | apr´18 | 0.66% | -0.04% | | | | | | |
| sterl. hedged | H-GBP | tbd | tbd | LU1353747097 | tbd | 0.91% | 0.00% | 0.00% | | | | | |
| sing $ hedged | H-SGD | 105.97 | -0.04% | LU0847086666 | dec´12 | 0.91% | | 1.23% | 2.07% | 0.63% | 4.61% | -1.51% | 0.28% |

** Shares in EUR also available at www.flabfunds.com*

### fLAB Satellite H-USD Performance since 2012

| ´12 | ´13 | ´14 | ´15 | ´16 | ´17 | ´18 | ´19 |
|---|---|---|---|---|---|---|---|
| 0.32 | -1.57 | 4.73 | -0.21 | 1.68 | 1.40 | -0.74 | 0.02 |

| Annual Yield Since Inception |
|---|
| 0.88 |




*Sharpe Ratio Target =* ***0.33*** ***Real*** *Sharpe Ratio 3yr* ***-0.39*** *5yr* ***0.30***

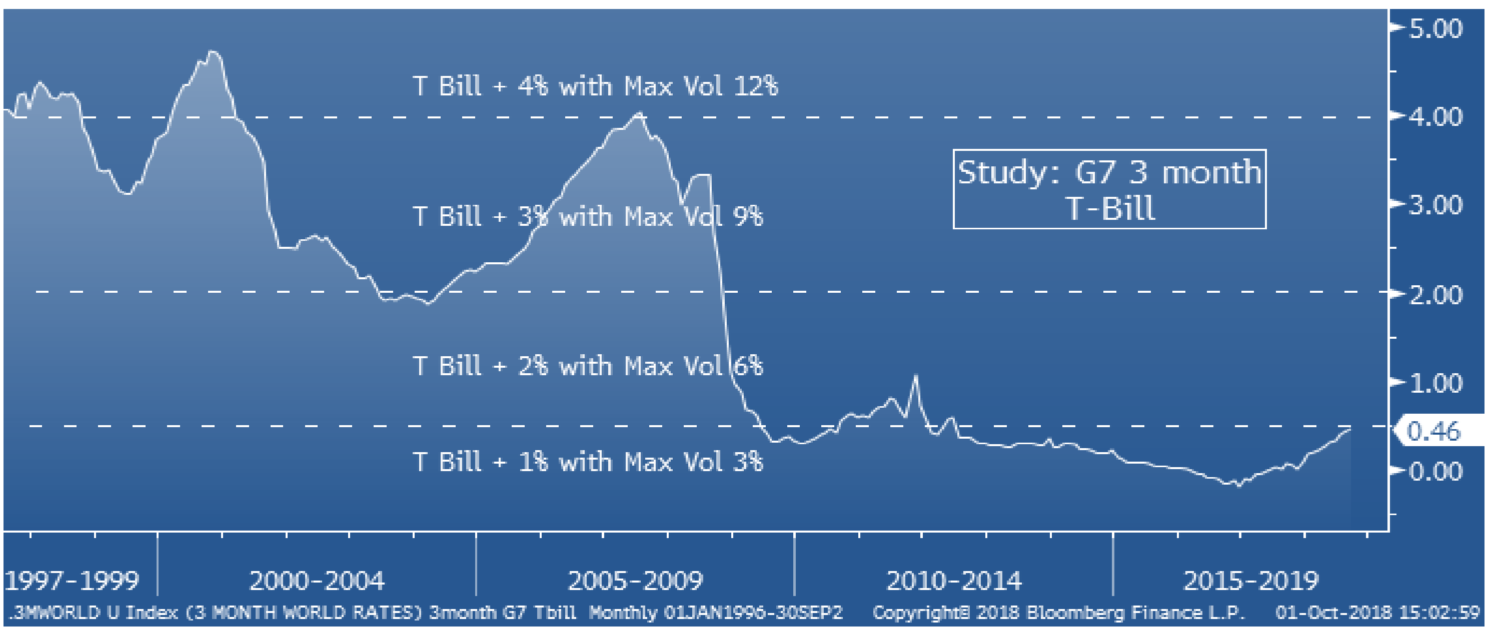
***We use Risk-Free Rate as our Benchmark***. *This is the theorical rate of return of a Zero Risk Investment.*
*The basket of G7 Government 3 Months Treasury Bills is our tool, creating an average of :US+Can+Jap+UK+Ger+Fr+Ita*

| When G7 3Months Treasury Bills | < 0.50% | 0.50% 2.00% | 2.00% 4.00% | > 4% |
|---|---|---|---|---|
| Target over G7 T Bills | +1 | +2 | +3 | +4 |
| Maximum Volatility | 3% | 6% | 9% | 12% |

| G7 3Month T Bill |
|---|
| 0.48% |

*We cannot say you should expect T Bills + 3%, under any level of risk free rate. We have to adapt the target dynamically.*
*That´s why we change the excess return we want to obtain above T Bills while we adapt different levels of maximum accepted volatility.* ***The minimum projected long-term Sharpe Ratio will be always of 0.33***

***0.33 Sharpe Ratio Study: adjusting excess return above T-Bills (adapting volatility vs.free risk rate) over the last 20 yr***



## Technical information

**Minimal Subscription**: Only for (A Institutional Share Class: 1 Million €)
**Management fee**: 0.66% (A share & Clean Shares); 1.16% (B share); 0.91% (C share & All Hedged Shares); **Performance Fee:** a percentage of the annual performance of the compartment: 5% (A share and Clean Shares); 10% (B share), 7.5% (C share & All Hedged) with high watermark
**Subscription & Redemption Fee**: 0%
**Share classes TER (2017):** A 1.43% ; B 1.97%; C & All Currency Hedged 1.70%

## Legal Structure

**Management Company:** Casa4Funds
**Custodian Bank**: Banque et Caisse d'Epargne de L'Etat Luxembourg (BCEE:Aa2/AA+)
**Investment Advisor**: Market LAB Luxembourg sarl
**Transfer& Paying Agent:** EFA, European Fund Administration
**Auditor**: Ernst & Young **Regulator:** CSSF
**Net Asset Value, Reporting & Liquidity**: daily

## 1 year Correlation Matrix: fLAB Satellite vs:

| MSCI World | World Govies | World IG | World HY | Euro/USD | Commdty Ind | Gold Spot | Hedge F Index | fLAB CORE |
|---|---|---|---|---|---|---|---|---|
| -0.02 | 0,02 | 0.01 | 0.17 | 0.12 | 0.26 | 0.34 | 0.21 | 0.51 |

## Portfolio Top 30

| | |
|---|---|
| Amundi Floating Rate Euro Corporate 1-3 UCITS ETF | 7,98% |
| iShares EUR Ultrashort Bond UCITS ETF | 7,06% |
| Lyxor Barclays Floating Rate Euro 0-7Y UCITS ETF | 6,13% |
| Amundi Floating Rate USD Corporate UCITS ETF | 5,70% |
| Xtrackers II iTraxx Crossover Short Daily Swap UCITS ETF | 5,58% |
| Credit Suisse Gr MTN 1% 04/23 | 4,97% |
| Lyxor EuroMTS 5-7Y Investment Grade DR UCITS ETF | 4,92% |
| Santander Intl Debt SA 4% EMTN 13/24.01.20 | 4,58% |
| Xtrackers Physical Gold EUR Hedged ETC | 4,00% |
| Deutsche Bank SAE 1.125 1/2023 | 3,63% |
| iShares EUR Corp Bond ex-Financials 1-5yr UCITS ETF | 3,60% |
| UBS GroupFunding 1.75 11/22 | 2,74% |
| BAIC Inalfa HK Investment 1.9% 02.11.20 | 2,68% |
| PIMCO Low Duration US Corporate Bond Source UCITS ETF | 2,34% |
| Xtrackers II EUR High Yield Corporate Bond 1-3 Swap UCITS ETF | 2,27% |
| Xtrackers II Eurozone Government Bond 1-3 UCITS ETF | 2,03% |
| L&G Longer Dated All Commodities UCITS ETF | 1,72% |
| iShares EUR Covered Bond UCITS ETF | 1,63% |
| Xtrackers DBLCI Commodity Optimum Yield Swap UCITS ETF | 1,43% |
| iShares Healthcare Innovation UCITS ETF | 1,36% |
| Lyxor EuroMTS Inflation Linked Investment Grade DR UCITS ETF | 1,32% |
| iShares Edge MSCI World Minimum Volatility UCITS ETF | 1,11% |
| ETFS EUR Daily Hedged Industrial Metals | 1,08% |
| Invesco Global Buyback Achievers UCITS ETF | 1,01% |
| Wells Fargo & Co FRN EMTN Reg S Sen 15/02.06.20 | 0,88% |
| iShares USD Corp Bond UCITS ETF | 0,86% |
| iShares J.P. Morgan USD EM Bond UCITS ETF | 0,83% |
| iShares Global Govt Bond UCITS ETF | 0,83% |
| Xtrackers Harvest CSI300 UCITS ETF | 0,80% |
| iShares USD Short Duration High Yield Corp Bond UCITS ETF | 0,62% |

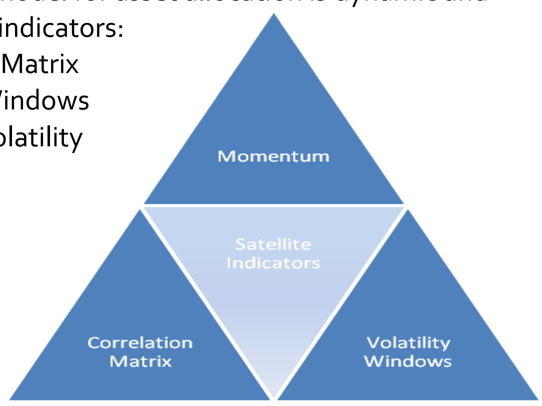
## Asset Allocation

| | | | |
|---|---|---|---|
| ***Fixed Income*** | 68.38% | ***Liquidity*** | 13.52% |
| Govies | 8.16% | Cash | 13.52% |
| Inflation Bds | 1.32% | Depo Aa2/AA+ | 0.00% |
| Fixed Inv Grade | 26.65% | | |
| Floating Inv Grade | 20.70% | ***Other Assets*** | 29.71% |
| Covered Bonds | 5.26% | MultiStrategy | 4.28% |
| Convertible Bonds | 0.00% | Short Equity | 12.19% |
| Emerg. Mkt Bonds | 3.51% | Short Credit | 5.58% |
| High Yield | 2.89% | Commodity Index | 8.23% |
| Gov Bond Futures | 0.00% | | |

***Duration:*** fixed income: 2.21 total portfolio: 1.51
***Currency*** : 88% EUR; 12% USD (fully hedged)
***Volatility*** : 90 day 1.86% ; 1 year 1.65%
***VAR*** 1 month, 99% conf, 1yr hist data : 1.16%

## fLAB Satellite Indicators

fLAB internal model for asset allocation is dynamic and uses 3 tactical indicators:
1) **Correlation** Matrix
2) **Volatility** Windows of accepted volatility
3) Short term **Momentum**




## fLAB Satellite Asset Universe

The model runs through different assets.The heart of the Satellite is a Fixed Income Portfolio + Overlay of decorrelated ETFs
**Fixed Income** (Government Bonds, Investment Grade, High Yield, Covered Bonds, Munis, Inflation Bonds, Convertible Bonds)
**ETF Overlay**: Currency Strategies, Gold&Commodities, Credit, Preferred Shares, Decorrelated Equity, Multistrategy...)

*Disclaimer: This Fund is authorised in the Grand Duchy of Luxembourg and regulated by the "Commission de Surveillance du Secteur Financier" (CSSF)*
*Authorized in Spain for Retail Investors and in Singapore for Accredited. Inception: May 2010, under a SIF structure.*
*USD and SGD share classes were launched in December 2012. In February 2016 the fund was converted into a full UCITS structure.*
*. Sharpe Ratio, Correlation, Volatility and VAR are calculated using the oldest share class: fLAB Satellite A*