# alternative repo structures: repurchase agreement v sell/buy-back

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- repurchase agreement
- sell/buy-back

 repurchase agreement also known as classic repo, US-style or all-in repo pension livrée in France

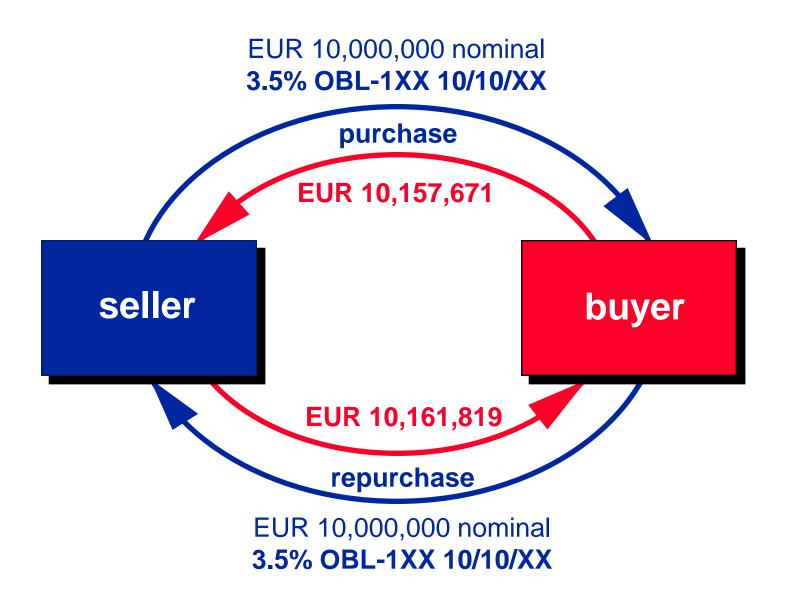
- repurchase agreement also known as classic repo, US-style or all-in repo pension livrée in France
- sell/buy-back also known as buy/sell-back or just sell/buys gensaki in Japan simultaneas in Spain

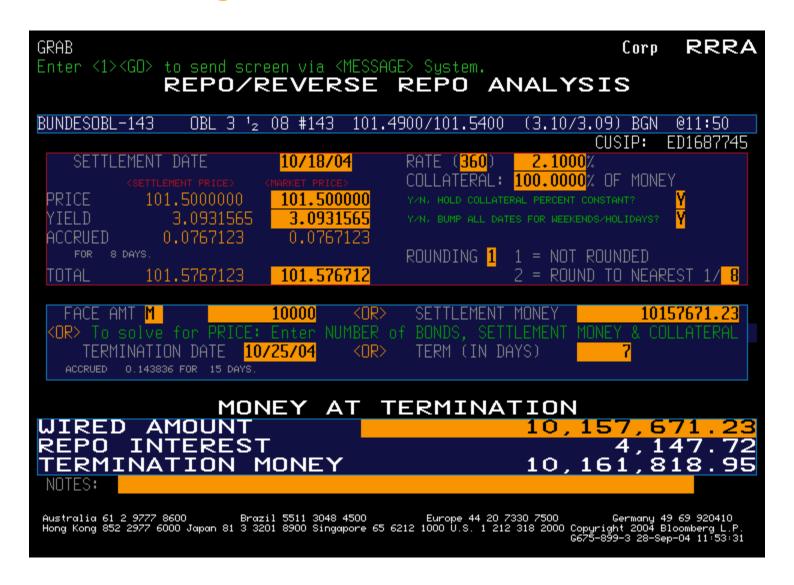
- repurchase agreements
- undocumented buy/sell-backs
- documented buy/sell-backs

1 week term 2.10% repo rate 3.5% OBL-1XX 10/10/XX collateral nominal value **EUR 10 million** clean price 101.50 accrued interest 8 days 101.5767123 dirty price haircut 0% EUR 10,157,671.23 market value purchase price EUR 10,157,671.23 repurchase price EUR 10,161,818.95 (repo return EUR 4,147.72)

#### repo return

$$\frac{10,157,671.23}{100\%} \times \frac{2.10 \times 7}{100 \times 360} = EUR4,147.72$$

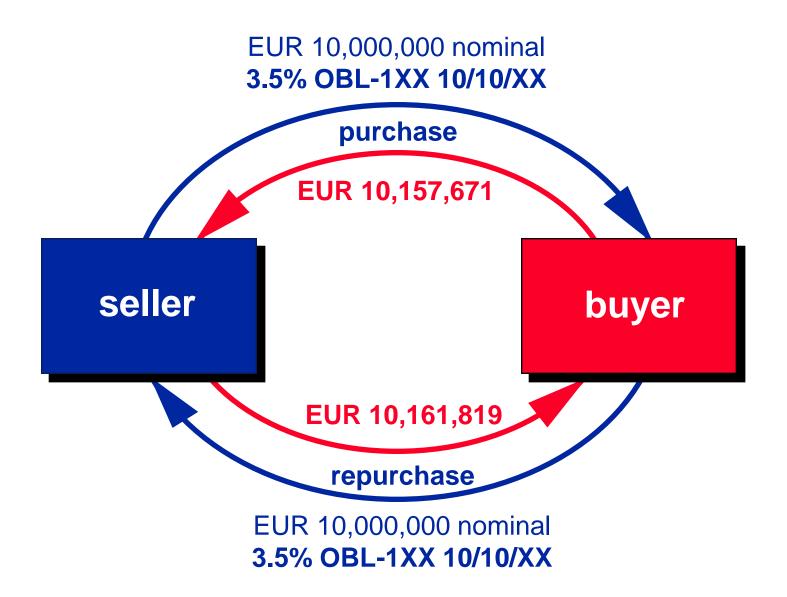


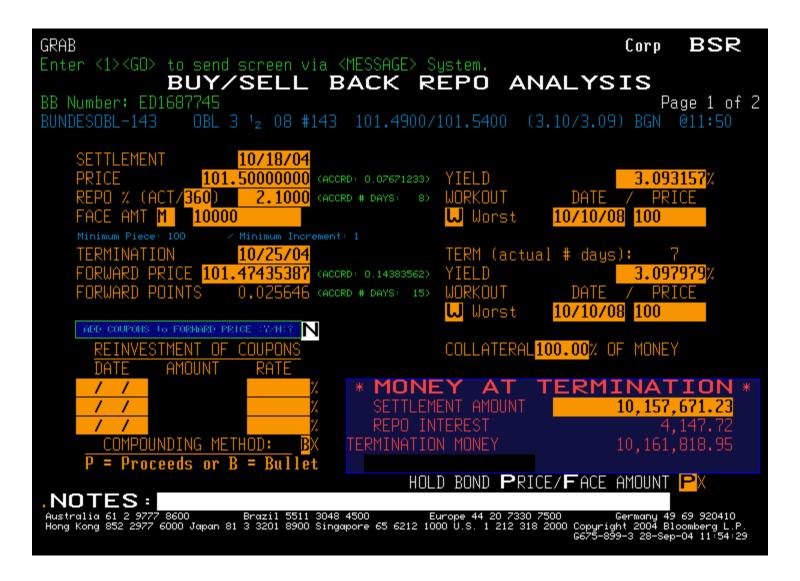


term repo rate collateral nominal value clean price accrued interest dirty price market value purchase price repurchase price

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EUR 10,161,818.95





#### repurchase agreement v sell/buy-back

	repurchase agreement	undocumented sell/buy-back
contract	single	separate
margin	yes	no
substitution	yes	no
coupon	immediate	deferred
written agreement	yes	no
variants	yes	no
cost	operational, legal	minimal
economic effect	secured loan	secured loan
transfer of title	yes	yes

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- but some counterparties, some countries have:
  - legal problems with repurchase agreements
  - operational problems with repurchase agreement

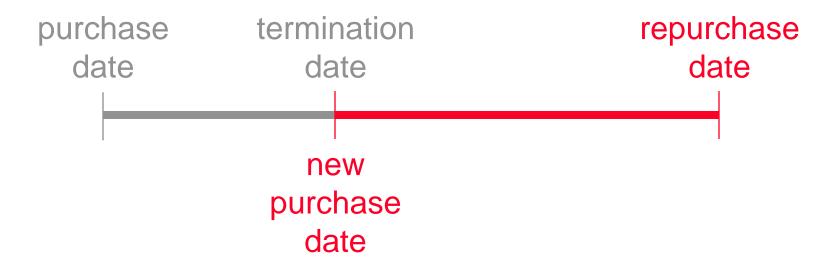
- recognition of collateral in capital adequacy calculations requires:
  - documentation with rights of close-out & set-off
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- but some counterparties, some countries have:
  - legal problems with repurchase agreements
  - operational problems with repurchase agreements
- incorporation of buy/sell-backs into documentation

## repurchase agreement v sell/buy-back

	<u>legal</u>	<u>operational</u>
repurchase agreement	1 instrument	1 instrument
traditional sell/buy-back	2 instruments	2 instruments
documented sell/buy-back	1 instrument	2 instruments





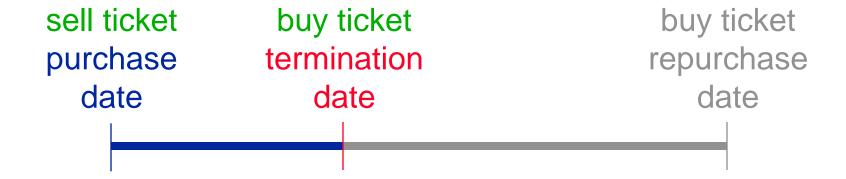


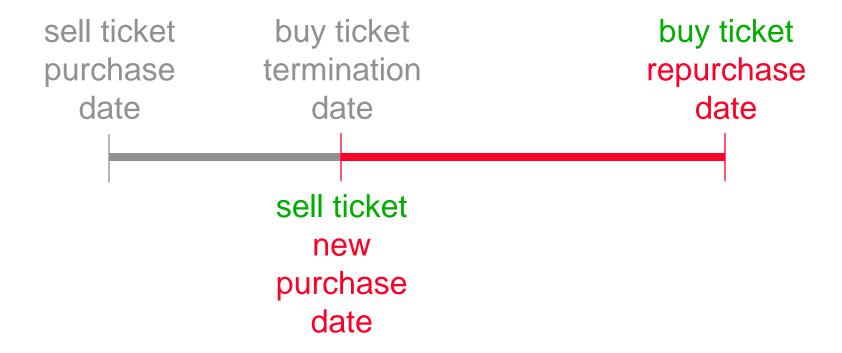
	<u>buyer</u>	<u>seller</u>
purchase date	+10 collateral	-10 collateral
	-10 cash	+10 cash

	<u>buyer</u>	<u>seller</u>
purchase date	+10 collateral -10 cash	-10 collateral +10 cash
termination	-9 collateral +10 cash	+9 collateral -10 cash
new repo	+10 collateral -10 cash	-10 collateral +10 cash

	<u>buyer</u>	seller
purchase date	+10 collateral -10 cash	-10 collateral +10 cash
termination	-9 collateral +10 cash	+9 collateral -10 cash
new repo	+10 collateral -10 cash	-10 collateral +10 cash
net	+1 collateral	-1 collateral







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